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Digitized with financial assistance from

on 28 December, 2018

CARLOS III.

REY DE ESPAÑA.

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/,‘ C49D;89 2‘ &‘ :;<53=‘ / ,,,

M#N] %

<3;D:34 ; 53 2 2 8:3 B3<6 C;8853&9354 &-32; ;24 : ;4 D;@=34 ; B9 5328 ;< G6=7 &<;H3 92 8:3 ;@H@=8 <3;43< , @8 : ;B92H @==9; =8955 8 &9H:8 :3 <3 <3==34 :9= ?<;8: & < ; 7 7328 ;&&3D892H 8)<3H;<4 ;= =;89=&;D8 <6 % 4 6A= =3<B953 53883<= &3G 5;2;89 2, 38 ?3 D;2 :;<456 4 @C8 8:;8 8:9= ?;= 8:3 7 7328 ;8 ?:9D: :3 7;43 @ :9= 7924 8:;8 8:3 @=3 & @8C 2 7@=8 D3;=3 8 <39H2 92 ;92, 3 7@=8 :;B3 <3&53D834 2 8:3 4;2H 8:;8 =@8:3<2 <;2D3 :;4 3=D; 34.S ;:24<34 8: @=;24 ;29;<4= 79H:8 :;B3 7;<D:34 2 <43;@G < @5 @=3 ;8:3 7 7328 &-32; ;24 8:3<3 ? @54 :;B3 C332 2 ;<76 ?:;83B3< 2 8:3 @2H@;9A434 &< 2893<) 8 8:3 6<3233= 8 : 54 8:37 92 D:3D>, @ =92H 8:;8 -32; :;4 C332 43&3<<34 ;7 28: <8:;8 2 43D9=9B3 C;8853 ;8 ;55 :;4 C332 & @H:8 92 8:3 &9<=8 =8;H3 &T8:3 =8<@HH53 .?98: <@==9; 98 ?;= D53;<8:;8 % 4 6 ? @54 :;B3 D 7 7 98834 :97=35&8 32 ?;<, =8;C 92 8:3 C;D> 3B32 9&43;58 ?98: 2 C3883< ?3; 2 8:;2 8:3 49= <H;29R3 ^ ;29=: ;<76 7@=8 :;B3 43<;2H34 ;55 ; 53 2A= 5;2= ;24 & <D34 :97 8 8@<2 = @8:?;<4 8:3 <3=3<B3= 43=89234 8 &334 8:3 T %<;24 <76,A 8 ?;= D53;< 8:;8 =@D: ;D 24989 2 & ;&&;9<= 7@=8 23B3< C3 ;55 ?34 8 <3D@< ;24 ?3 =: @54 2;8@<;556 3G 3D8 8 &924 8:;8 8:3 7 7328 8:3 ?;< & MUN. ?;= 32434 ; 53 2 ? @54 8@<2 ;H;92=8 ;92 398:3<8 438:< 23 :;<53= / <;8 53;=8 8 437;24 8:3 49=79==;5 &< 7 &&9D3 &% 4 6, 3 ;D>2 ?534H34 8:9= :97=35&;8 8, 3532;K 8:3 <9H:8 8:92H 8 :;B3 4 23 ;= :3 8:32 D 2D3434 ? @54 :;B3 C332 8 43D5;<3 32 ?;< 2 ;92 9 7 7349;8356 ;&83< 95=98

&83< 39H:8 63;<= &3G 3<932D3 &2; ;<83 ;= ;2 ;556 8:3 <@53<= &;92 @H:8 8 :;B3 >2 ?2 8:;8 :9= =9532D3 4@<92H 8:3 D;7 ;9H2= &69;@ ;24 <9345;24 C 434 8:37 2 H 4, @8:9= <3=328 9283289 2= 3=D; 34 8:37 ;24 8:36 :;=83234 8 ;8 23 & < 8:3 < D5;7;89 2 &D8, C6 ;= 3<B953 C34932D3.8 ;55 8:3 <43<= ?:9D: :3 =328 8:37, :3 7 =8 97 <8;28 &8:3=3 ?;= 8:3 D 7 7;24 8 7 C959R3 ;24 =324 8 8:3 ;589D ### &8:39< C3=8 8< = W ;<D: M#], :9= ?;= < 7 856 4 23 8:3 43 53834

T -3 X@<;9 43=5 <= J@A95= 73 5;; 93<;9328 J@3 X3 53= 7388<;9= : <= 4A38;8 43 73 2@9<3 A=;94 ; 53 2 8 3 <;48 39H:8332 7 28:=5;83<& ( ) ! * , NP, :3 ;<D:C9=: A= =8 <6 9= ;7 56 C <23 @8 C6 8:3 <3 3;834 ;55@=9 2= 8 8:9= @2:; 6 < D5;7;89 2 92 ; 53 2A= &&9D9;5 X@=89&9D;89 2 &:9= D 24@D8 92 ;92, :3 ;29=:; 7C;==;4 < ;8 3<592 2 3298 ;<4 ?;= 8 54 C6 ; 53 2 ;8 8:3 8973 ,8:;8 :3 :;4 &<H9B32 8:3 < D5;7;89 2 C@8 D @54 2 8 & <H38 98,

* + ! , ! - GGG99, N",

;AF@;' * 3 /' / 1 / 4 4' * 3 4 / * / .' " ' @

2; ;<83' 3256'43D5;<34'8:;8'8:36' ?3<3'43=89234'8 'C3'@=34'2 8' ;H;92=8' ;92'C@8';H;92=8' <8@H;5,' 23' &'8:3';<89D53=' &'8:3' 3;D3' &' 95=98':;4'C332'8 '8:3'3&&3D8'8:;8' ?3432';24' <8@H;5'8:3'5;=8' ?3<='92' @< 3' ?:9D:' :;4'2 8' =@C7 98834'8 '8:3' 2V 892328;5' 6=837' =: @54'C3'D 7 35534 9&'23D3==;<6'C6'& <D3 8' ;4:3<3'8 '98';24'8 '3GD5@43'8:3'D 7 73<D3' &' 2H5;24'&< 7'8:39<' <8=,' 8' ?;=' 2;8@<;5'8:;8'2 ?' ;='92' M# ';' <32D:'D 2892H328' =: @54'C3'=328'8 ';94' ;92'92'C<92H92H' <3==@<3'8 'C3;<' 2' :3<' =7;553<'239H:C @<,' 98:'8:9='943;'% 4 6';24':9=' 7;=83<' 3<=9=834' 92'8:3'B 5@28;<6'C592423==' 8 '8:3'=9H2=' &'8:3'8973=' ?:9D:'8:36' :;4' = ' 5 2H' C332'D@589B;892H,' 5936'H;B3'8:39<' ;7C;==;4 <' 92' 9=C 2' <43<=' 8 ';D8'92';55'8:92H=' 92'=8<9D8'D 2X@2D89 2' ?98:' :9=' <32D:'D 553;H@3,

2' @H@=8' $9-' 8:3<3& <3'8:3' <3 <3=328;89B3=' &' ;92';24' <; D3'4359B3<34'8 '- :2'8:3' <92D3. 3H328' &' <8@H;5'0:9=' 7 8:3<'U@332' ;<9;' ?;='92=;23P';57 =8'943289D;5'2 83='92' ?:9D:' 8:36'43D5;<34'8:;8'8:36' :@54';=>'& <'8:39<' ;== <8=';24'53;B3' 9=C 2'@253==' C6'8:3'&9<=8' &' 3 837C3<'8:3' 3H328':;4'43D5;<34' ?;<' 2' 2H5;24'X 9234':9=' &5338'8 '8:;8' &'8:3';55934' ?3<='D 2&9=D;834';55' <989=:' H 4=' 92' :9=' :;<C @<=' ;24';<<3=834';55' <989=:'=@CX3D8=' ?98:92'8:3'C @24=' &':9=' >92H4 7,' :3' <92D3' ;'89794';24'92D; ;C53' 3<= 2' ?: =3' 256'?9=:'?;='8 ' <3=3<B3':9=' 23@8<;5986' ;2=?3<34'8:;8' :3' ?;='<3;46'8 'C<3;>' &&'49 5 7;89D' <35;89 2=' ?98:' 2H5;24' ;24'8 'D5 =3' :9=' <8=';H;92=8' <989=:' =:9 ='C@8'8:;8'8:3'=39R@<3' &'8:3' 3<= 2=';24' < 3<86' &'8:3' <989=:'73<D:;28='?98: @8';26' <3B9 @=' 43D5;<;89 2' &'?;<'? @54' C3'D 28<;<6'8 '8:3'<@53=' &'9283<2;89 2;5 5;?';24'7 <;5986,' <' ;'7 7328':3': 34'8:;8'8:9=':;5&.73;=@<3'? @54'=;89=&6' ; 53 2' 8:;8':3'79H:8'=@C798'8 '8:3' 2892328;5' 6=837'?98: @8';D8@;556' C392H'D 7 35534'8 '43D5;<3'?;<' 2'%<3;8' <98;92,' @8'?:32' 49= ;8D:3=' :;4'C332'9283<D:;2H34'C38?332'8:3' <32D:' 7929=83<' ';623B;5';24':9=' 7;=83<';8' ;<9='8:3';2=?3<'D;73'8:;8'8:3' 3H328A=' &&3<'?;='92=@&&9D9328';24'8:;8'8:3'<3 <3=328;89B3=' &' <;2D3';24' ;92'?3<3' <43<34'8 'J@98' 9=C 2';8' 2D3,' :9='8:36' 494' 2' 3 837C3<'I#'C@8'?98: @8'9==@92 ;26'& <7;543D5;<;89 2' &'?;<,'

2' D8 C3<'M'8:3' <32D:';<76'?:9D:' :;4'C332'D 2D328<;892H' ;8' ;6 223'=92D3'8:3'C3H92292H' &' @H@=8' @243<'8:3' :;<753==' 2;73' &'8:3'I' < =' &' C=3<B;89 2' &'8:3'%9< 243A' D< ==34'8:3' 94;== ;,;8' <@2';24'3283<34' ;92,' 8' :;4'C332' 5;D34'@243<

M' ' ' ' ' W#_ ,' $

8:3' <43<=' &' -@2 8' 23' &' ; 53 2A=' 7 =8' ;D89B3' ;24' (2H < @=' &&9D3<=' C@8' 2 8' ;' H<3;8' =8<;83H9=8' ;&83<' 8:3' =8653' &' ;==32;' @58' <' ;B @=8,' 3' ?;=' ;' H 4' &9H:892H.7;2' C@8' ;' 7349 D<3' H323<;5,' :3' <3;= 2' 8:;8' :3' <3D39B34' 8:3' ; 9287328' ?;=' 8:;8' :3' :;4' ;5<3;46' = 73'>2 ?534H3' &' <8@H;5' &< 7' :;B92H' :354' 8:3' =8' &' ;7C;==;4 <' ;8' 9=C 2' 92' M# ,' 3' :;4' C332' < 79=34' ;' 4@D:6' ;24' ;' 7;<=:;5A=' C;8 2' 9&' :9=' 79==9 2' ?;=' D;<<934' @8' 8' :9=' 7;=83<A=' D 7 5383' =;89=&;D89 2,

8' 9=' D53;<' 8:;8' &< 7' 8:3' &9<=8' ; 53 2' :;4' 92832434' 8:;8' <8@H;5' =: @54' <3&@=3' 8:3' 9H2 7929 @=' <43<=' ?:9D:' :3' :;4' H9B32' 8' 8:3' <92D3. 3H328,' &' :3' :;4' 256' C332' ?9=:92H' 8' D 7 5383' 8:3' 3G832=9 2' &' 8:3' 2892328;5' 6=837' B3<' ;55' @8:3<2' @< 3' 8:3' & <7' &' C34932D3' ?:9D:' :;4' C332' &&3<34' :97' C6' 8:3' <8@H@3=3' H B3<2 7328' ? @54' :;B3' C332' ;7 56' =@&&9D9328,' @8' :3' ?;=' ;9792H' ;8' ;223G;89 2' ;24' 2 8' ;8' 8:3' 73<3' ;==3<89 2' &' :9=' =@R3<;9286' B3<' <8@H;5,' :3' &;D8' 8:;8' :3' C3H;2' 8' 7;==' 8< =' ;8' ;6 223' C3& <3' :3' D 7 732D34' 8' 8:<3;832' 8:3' 3H328' 9=' =@&&9D9328' < &' &' :9=' 9283289 2=,' 2' ;<76' ?;=' 2 8' 233434' 8' D 3<D3' 8:3' <8@H@3=3K' & <' 98' ?;=' 92D<349C53' 8:;8' 92' 8:3' 8:32' D 24989 2' &' @< 3;2' ;&&;9<=' 8:36' ? @54' 4;<3' 8' <9=>' ?;<' ?98:' <;2D3' ;24' ;92' C6' ;4:3<92H' 8' =89&&56' 8' 8:3' D;@=3' &' 2H5;24,' :3' 3H328' ?;=' 8979 4' ;24' :9=' =@C79==9 2' ?;=' D3<8;92S' C@8' ;' 53 2' 8 >' D;<3' 8' 49D8;83' 8:3' 83<7=' 8:;8' :3' &&3<34' 92' =@D:' ;2' &&32=9B3' & <7' 8:;8' 8:3' <8@H@3=3' H B3<2 7328' ? @54' C3' 837 834' 8' C3H' & <' D:;2H3=' &' 438;95' 8:@H:' 98' = << ?&@556' ;DD3 834' 8:3' 23D3==986' &' D 2D3492H' 8:3' 7;92' 928' ?;<' 98:' 2H5;24' ;24' 8:3' ;DD3 8;99D3' &' 8:3' 2892328;5' 6=837,' :3' <92D3. 3H328' ;=' 79H:8' :;B3' C332' 3G 3D834' 7;43.' ;' &33C53' ;8837 8' 8' :;HH53' B3<' 8:3' 7 <3' 9H2 7929 @=' 438;95=' ;24' 8:32' ; 53 2' ?98:4<3?' :9=' ;7C;==;4 <' ;24' 538' 5 =3' :9=' ;<793=,

:<856' ;&83<' -@2 8' :;4' D< ==34' 8:3' 94;== ;' 8:3<3' ?;=' =9H234' ;8' 28;923C53;@' 8:3' D353C<;834' =3D<38' 8<3;86' ?:9D:' 7;<>=' 8:3' =3D 24' =8;H3' &' 8:3' 7 3< <A=' 43=9H2=' ;H;92=8' 8:3' 3292=@5;' 8' ?;=' 4<;?2' @ ' C6' @< D' ; 53 2A=' 7;<=:;5' J&' 8:3' ;5;D3' ;24' @H329' RJ@93<4 '8:3';H328' &'% 4 6,' <'8:3' &&9D9;5' ;7C;==;4 <' &' ;92' 92' ;<9=' 8:3' <92D3' &' ;==3<;2 ' ?;=' 98C8' 8;>32' 928' 8:3' D 2&9432D3' &' :9=' 7;=83<' ,' 55' 4359D;83' 7;883<=' ?3<3' D 24@D834' C6' 8:3' &;B @<983A=' <9B;83' <3 <3=328;89B3' ;2' C=D@<3' C@8)' ;=8@83' 3<= 2;H3' 8:3' 49<3D8 <' &' 8:3' 8;29D;5' %;<432=' ;8' ;49)94' ?: =3

* ;5536<;24' 43D5;<3=' 92' :9=' '09,' IL"P' 8:;8' ; 53 2' >3 8' :;7.' ;H26' :9=' ?2' 7929=83<' &'& <39H2' ;&&;9<' 92' 3J@;54;<>23==,

M#]' ' ' ' ' "

=989 2' ?;=' 53H9897 9R34' C6';'< 6;5'=9H2.7;2@;5' H9B92H':97' ?3<='
8' 8<3;8';=';' 5329 83289;<6'?98:' <;2D3,' T' 392@35'9=' 6 @<' < V
83D8 <'K' 4' ?:;8':3'8355=' 6 @';24'C6'=3<B92H':97'6 @'=3<B3'73A'8:3'
54'>92H':;4'=;94'?:32'H9B92H':97':9=' D 779==9 2,
:3' <3;86' &' 28;923C53;@'9=';'=8<;2H3'4 D@7328'?: =3'7;92'
7 =3';8';'.&9<=8'H5;2D3'=337=' 8' C3'8:3'H5 <9&9D;89 2' &'% 4 6,'
8'9=' D 7 =34' &'& @<8332';9.89D53=' O'8:3'7 =8'97 <8;28' &'?:9D:'
D 28;92'8:3'438;95=' &';' < X3D834'49=737C3<7328' &' <8@H;5,'
:3' D @28<6'?;=' 8' C3' D@8'@' 928'8:<33' ;9.8=,' <8' ;24'8:3'
2 <8:3<2' < B92D3' &' 28<3. @< .3. 92:' ?3<3'8' C3D 73'8:3'
*092H4 7' &' <8:3<2' @=98;29;A';24'8' C3' D3434'8';' @<C 2'
8:3'6 @2H'092H' &' 8<7.9;'?: 7' ; 53 2';?;='X@=8'3B9D892H'&< 7'
:9=' 53;=;28';C 43';8' 5 <32D3,' ' @8:3<2' <8@H;5'8:3'5;<H3'
< B92D3' &' 537 83X';24'8:3'D ;=8'<3H9 2' &' 5H;<B3'?;=' 8' C3'A
H9B32';=';2'9243 324328' <92D9 ;5986'8'% 4 6'@243<'8:3'89853' &'
T <92D3' &'8:3' 5H;<B3=A ,' :3'<3=8' &' <8@H;5' 9=C 2';24'8:3'
< B92D3=' &' 39<;' =8<37;4@<;';24' <;=. =. 283=' ?3<3'8' C3'
=3J@3=8<;834'89 '8:3'D 2D5@=9 2' &';'H323<;5' 3;D3';24'73;2?:953'
?3<3'8' C3'H B3<234';24';4 7929=83<34'C6'8:3' <32D:,' 5897;8356'
8:36'?3<3'8' C3'<3=8 <34' <'2 8'<3=8 <34'8'8:3': @=3' &' <;H;2R;'
;DD <492H';=8:3':9H:'D 28<;D892H' ;<893=' 79H:8'4383<7923,
' 2=83;4'8:3<3& <3' &'<3D39B92H' @29=:7328'& <':9=' 3=D; ;43'92'8:3'
;@8@72' &' M#N'% 4 6'?;=' 8' C3' 7;43'C6' ; 53 2';'= B3<39H2'
<92D3^ @8' ;92';=;'; ;<8'&< 7'8:3'8&;B @9)983'H 8'=7;55' < &98'
&< 7'8:9=' 3G8<; <492;<6'8<3;86K : ;<53=) /' 79H:8'8;>3' ?98:92'8:3'
23G8'8:<33'63;<='8:3' 7 @=' 89853' &' T 7 3< <'. &'8:3' ? '
73<9D;=A';24'?;=' 8' C3' H9B32' = 73' =:;<3' &'8:3'8<;2=7;<923'
==3==9 2=' &' <8@H;5 ?:9D:'73;2?:953' 08<3;893=' <'2 P' ? @54'
923B98;C56'&;55'928'8:3':;24=' &'%<3;8' <98;92'?:' ':354'8:3'D 7V
7;24' &'8:3'=3;='?:953' ; 53 2'494'2 8,
8'9=' 92D<349C53'8:;8' 2; ;<83'3B3<'=3<9 @=56'92832434'8'D;<<6'
'@8'8:3'83<7=) &'8:3' <3;86' &' 28;923C53;@K 8:36'?3<3'2 8'3B32
' 33'8:3'83G8'92' 3249G' ;' ,
' 2'8:3'D@<9 @=' 3GD@5 ;8 <6'737 99.=' ?:9D:'% 4 6' @C59=:34'92' MIN.N'
?98:'8:3';94' &'4A =732;<4':3'3243;B @<='8 ;'7;>3' @8'8:;8':3'23B3<'43=9<34'
8:3' <92D9 ;5986';24'8:;8' ; 53 2' <3==34'98'@ 2':97'C3D;@=3':3'?9=:34'8'
<37 B3':97'&< 7';C @8'8:3' 3<= 2' &' :;<53=' /,' T' :3'H9&8' &'8:3' <92D9V
;5986' &'8:3' 5H;<B3=' ?;=';' C;29=:7328'A'09,'NLP,' :9=' 53;'?955'2 8'=8;24'
92'8:3'&;D3' &'8:3'&;D8'8:;8'% 4 6':;4'=59D9834'X@=8'=@D:' <3&3<7328';=&;<
C;D>';=8:3'=<92H' &' M#N'S =33' <83D:37 ' ' ' ! '9,' LM,'
9=<3;5' CX3D8'?;=8'='=3D@<3';' 5;D3' &'<3&@H3';8'8:3'43;8:' &' :;<53=' /,

M#] ‘ %‘ ‘ ‘

2‘ <8@H;5 ;24‘ 8:;8‘ 8:9=‘ & <D3‘ ? @54‘ C3‘ <3;46‘ 8 ‘ D< ==‘ 8:3‘ 6<3233=‘ C6‘ B3 7 C3<‘ $#,‘ ; 53 2‘ =328‘ 2 8‘,L# ###‘ C@8‘ ## ###‘ 7 32‘ ;24‘ @=:34‘ 8:3 7‘ 928 ‘ ;92 *8: @H:‘ 2 ‘ 2H59=:‘ 92B;=9 2‘ &‘ <8@H;5‘ :;4‘ 8;>32‘ 5;D3‘ ‘ <‘ 3B32‘ C332‘ < X3D834,‘ &83<‘ 8:9=‘ 9=‘ 98‘, ==9C53‘ 8 ‘ C3593B3‘ & <‘ ;‘ 7 7 328‘ 92‘ :9=‘ H 4‘ &;98:‘ <‘ 8 ‘ 8:92>‘ 8:;8‘ 8:3‘ <3;86‘ &‘ 28;923C53;@‘ ?;=‘ ;268:92H‘ 7 <3‘ 8:;2‘ ;‘ =2;<3‘ b : =3‘ ? : ‘D @54‘ C3=8‘ X@4H3‘ ? : ;8‘ ? ;=‘ ;8‘ 8:3‘ C;D>‘ &‘ 8:3‘ 3 7 3< <A=‘ 7924‘ =@D:‘ ;=‘ ;5536<;24‘ ;24‘ @D:6‘ 3238<;834‘ :9=‘ 43=9H2=‘ 5 2H‘ C3& <3‘ 8:3‘ 8<3;86‘ &‘ 28;923C53;@‘ :;4‘ C332‘ =9H234,‘ ;5536<;24‘ 43D5;<3=‘ 92‘ :9=‘ 7 3 7 9<=‘ ‘ 8:;8‘ 8:3‘ <3;= 2‘ & <‘ ? :9D:‘ :3‘ ? ;=‘ 43 <9B34‘ &‘ 8:3‘ <8& 59 ‘ &‘ <39H2‘ &&;9<=‘ 92‘ @H@=8 ‘ M# ‘ ? ;=‘ 8:;8‘ :3‘ :;4‘ 49=59>34‘ 8:3‘ =D:3 7 3‘ &‘ 92B;492H‘ ;92‘ 92‘ ;‘ 8<3;D:3< @=‘ &;=:9 2 ‘ ;24‘ ? ;<234‘ :9=‘ 7 ;=83<‘ ;H;92=8‘ 98,‘ ‘ 9 7 < C;C95986‘ 9=‘ ;4434‘ 8 ‘ 8:9=‘ ;553H;89 2‘ C6‘ 8:3‘ &;D8‘ 8:;8‘ ; 53 2‘ ;8‘ 8,‘ 3532;‘ <3 3;83456‘ =8;834‘ 8:;8‘ ;5536<;24‘ :;4‘ &9<=8‘ 8: @H:8‘ C&‘ 8:3‘ 943;‘ ;24‘ :;4‘ <3D 7 7 32434‘ 98‘ 8 ‘ :9 7‘ T‘ ? :953‘ ;8‘ 8:3‘ =;7 3‘ 89 7 3‘ D 28<9B92H‘ 8 ‘ =38‘ ;2‘ 929 2‘ ;C< ;4‘ 8:;8‘ :3‘ ? ;= =34‘ 8 ‘ 8:3‘ 43=9H2,‘ 2‘ 8:3‘ 1 8:3<‘ :;24‘ ? 3‘ ;<3‘ 2 8‘ D 2B92D34‘ &‘ 8:3‘ <92D3‘ &‘ 323B328 A=‘ 922 D32D3‘ 7 3<356‘ C6‘ 8:3‘ &;D8‘ 8:;8‘ :3‘ ?< 83‘ 92‘ :9=‘ ;@8 C9 H<; :6‘ 8:;8‘ :3‘ ? ;=‘ ;‘ =8<32@ @=‘ 2328‘ &‘ 8:3‘ 5;2,‘ 3‘ =;6=‘ 8:;8‘ 8:3‘ 3 7 3< 8‘ C< ;D:34‘ 8:3‘ ? : 53‘ =D:3 7 3‘ 8 ‘ :9 7‘ 8:3‘ 7 7 328‘ 8:;8‘ :3‘ <38@<234‘ &< 7‘ 95=98‘ ;==3B3<;892H‘ 8:;8‘ :3‘ ? @54‘ 23B3<‘ ;H;92‘ 3G =3‘ :9 7 =35&‘ 8 ‘ 8:3‘ 4;2H3<‘ &‘ ;‘ =8;C‘ 92‘ 8:3‘ C;D>‘ ;8‘ = 7 3‘ 7 7 328‘ ? :32‘ :3‘ 7 9H:8‘ C3‘ C@=6‘ 92‘ 328<;5‘ @< 3 ,‘ 3‘ :9 7 =35&‘ ‘ :3‘ ;44=‘ D 7C;834‘ 8:3‘ < X3D8‘ C6‘ 3B3<6‘ ==9C53‘ ;<H@ 7 328‘ ‘ C@8‘ D @54‘ 2 8‘ 7 B3‘ :9=‘ 7 ;=83<‘ ;2‘ 92D:‘ &< 7‘ :9=‘ 9@. =3,‘ :9=‘ 9=‘ < C;C56‘ 8<@3‘ C@8‘ ?3‘ C3593B3‘ 98‘ 2 8‘ C3D;@=3‘ ;5536<;24‘ ?< 83‘ 98‘ 4 ?2 :9=‘ C955=‘ <3J@9<3‘ 8:3‘ 324 <=3 7 328‘ &‘ = 7 3‘ C;D>3<‘ &‘ ;‘ 53==‘ 8;<29=:34‘ <3 @V 8;89 2 C@8‘ C3D;@=3‘ 8:3‘ ? : 53‘ &‘ 8:3,‘ ;29=:‘ 3 9= 43‘ 9=‘ 3G3D@834‘ 92‘ 8:3‘ 8<@3‘ ; 53 23=J@3‘ 7 ;223<,‘ 8=‘ =D9328&9D‘ 7 9G8@<3‘ &‘ & <D3‘ ;24‘ &<;@4‘ 9=‘ D53;<56‘ 8:3‘ ? <>‘ &‘ 8:3‘ =;7 3‘ :;24‘ 8:;8‘ 7 ;2;H34‘ 8:3‘ ‘ 438;-9=‘ &‘ 8:3‘ &;55‘ &‘ 8:3 T/ 32389;2‘ 3 @C59D‘ ‘ ;24‘ &‘ 8:3‘ 438:< 292H‘ &‘ 3‘ 9@=‘ / ,‘ 8‘ 9=‘ 9 7 ==9C53‘ 8 ‘ ;=D<9C3‘ 8:3‘ 5 8‘ 8 ‘ ;26‘ 8:3<‘ ;@8: <,

* ;5536<;24‘ ‘ 9,‘ I#M.I$",)

[‘ C94,‘ 9,‘ I M‘ I ",

: - *8.' ;<76' ?;=' 23;<92H' 8:3' <8@H@3=3' &< 2893<' ;24' 8:' <3=3<B3' ;8' ;6 223' ?;=' ;5<3;46' C3H92292H' 8 ' ;==37C53 98' ?;=' 2 ?' =86534' T8:3' 3D 24' < =' &' C=3<B;89 2' &'8:3' %9< 243A ' ?:32' ;'=3<93=' &'=8;<8592H' 3B328=' 8 >' 5;D3' ;8'8:3' ;29=:' @<8,' 2' D8 C3<' $ ' 8:3' B3<6'4;6'8:;8'8:3'8<3;86' &' 28;923C53;@' ?;=' =9H234' 3<492;24' <92D3' &'8:3' =8 9;=' ?;=' =39R34'C6' :9=&;8:3<' ;24' 8:< ?2' 928 ;D 2&9237328' 2' ;' D:;<H3' &' :9H:' 8<3;= 2' &' :;B92H' 5 8834' 8 ' 438:< 23' <' 3B32' 8 ' 7@<43<' :9=' ;H34' ;<328,' , :9=' ;=8 29=:92H' 43B35 7328' 92' 8:3' =98@;89 2' 2334' 2 8' C3' 5;94' 8 ' ; 53 2A=D:;<H3,' :3<3' :;B3'C332' :9=8 <9;2=' ?:' 8:92>'8:;8' :3' 4359C3<;8356' =89<<34' @ ' 8:3' ?: 53' =3<93=' &'&;7956' J@;<<35=' ;8' ;4<94K' C@8' ;' 8:3' 7;83<9;5=& <' 8< @C53' ?3<3'8:3<3';5<3;46' ;24' 8:3'=:;' 3' ?:9D:' 8:36'8 >' ?;=' 2 8' ;<89D@5;<56'&;B @<;C53*'8 ' 8:3' 7 3< <A=' <3=328' 43=9H2=,' :36' = <;2H' &< 7' 8:3' 923B98;C53' <3B 58';H;92=8'8:3' <34 792;2D3' &'% 4 6' ?:9D:' :;4'5 2H9C332'4@3, :3' 73<3'&;D8'8:;8' ;2' 92D; ;C53' @ =8;<8'59>3' % 4 6' :;4' C332' ;C53'8 ' D 28< 5'8:3'& <39H2' ;24' 9283<2;5' 59D6' &' ;92' 3B3<'=92D3' "$'9=';'=@&&9D9328' 3B9432D3' &'8:3' 79=3<;C53' =8;83' &'8:3' D @28<6,' 3'.?;=;' 73<3' D @<8'&;B @<983' &'8:3' ? <=8' D5;==K 8 ' D 7 ;<3' :97' 8 ' @D>92H:;7' ? @54' C3' &;<' 8 ' &5;883<92H ;24' 3B32' 93<=' %;B3=8 2' :;4';' <3886' ?98' ;24' 2 ' 73;2' =>955' ;=';' 7;2.;8.;<7='8: @H:' :3' ?;=' ;5=' ';' B;92' =8328;89 @=' & 5,' &83<' ;'&3?'63;<=' ?3' 7;6'<3737C3<' 8:3' 23' 738'8:3'4;HH3<' ;24'8:3' 8:3<'8:3' ;G3' ?98:'8:3'&9955' ; < B;5' &' 2H59=:' @C59D' 929 2,' @8'% 4 6'?328' 2'&5 @<9=:92H'59>3'8:3'H<332'C;6.8<33'& <'=9G8332'63;<='43D>34'?98:' 89853=' ;24' &&9D3=' ;24'5;432' ?98:' 5@243<' ?98:'2 ' 8:3<'=@ <8' 8:;2'8:3'J@332A=@2D 2D3;534' ;<89;5986'& <':97c;24'8:3'949 89D' 54' >92HA=43=9<3'8 ':;B3'8< @C53'8;>32' &&':9=::;24=,' B3<6'8:92>92H' 7J,2' 92' ;92':;834'8:3'&;B @<983';=8:3.' @8?;<4';24'B9=9C53'=9H2' &'D <<@ 89 2'92':9H:' 5;D3=,' B3<6' ;8<9 8'=;?'8:;8'8:3'? @54.C3' =8;83=7;2'?:' 7;43':97=35&'8:3';4@5;8 <'&9<=8' &' ;<<;=' ;24'8:32' &' 2; ;<83' ;24' 5;634'D;8A=. ;?'8 '3;D:' &'8:37'8 '8:3'@5897;83

M#]' 0 %' ' /' I

<@92' ;24' C;2><@ 8D6' &' 8:3' <3;57' @H:8' 8 ' C3' <37 B34,' 38' 8:3<3' ?;=' 2 ' =9H2' &' ;26' 7 B37328' ;H;92=8' :97 ' =;B3' C=D@<3' 5 8=' 92' 8:3' : @=3: 54' &' 8:3' <92D3' 6;5,' @8' & <' 8:3' 9283<V &3<32D3' &' ; 53 2' 92' 8:3' ;&&;9<=' &' ;92 ' 98' 9=' ==9C53' 8:;8' 8:3' <92D3' &' 8:3' 3;D3' 79H:8' :;B3' 32X 634' 7;26' 63;<=' 7 <3' &' ?3<,' @D:'9=' 8:3' <9D3' ?:9D:' 2;89 2=' ;6' & <':;2492H' B3<'8:39<' C 493=' 8 ' ;@8 D<;89D' 7 2;<D:6' ;24' 8:39<' = @5=' 8 ' :<33' D328@<93=' &' 8<;9292H' @243<' 8:3' 2J@9=989 2,

' 8' 9=' 3<:; =' 23D3==;<6' 8 ' H;92' = 73' 438;9534' 943;' &' 8:3' @2V 53;=;28' &;7956' ;9%86' ;8' ;4<94,' 092H' :;<53=' /' ?;=' 2 ?' ;' 7;2' &' =9G86' 63;<=' &' ;H3K' :3' ?;=' = ' 3289<356' =97 53' ;24' :35 53==' 8:;8' 98' 9=' :;<456' ;2' 3G;HH3<;89 2' 8 ' =;6' 8:;8' :9=' ?3;>23==' C <43<34' 2' 97C3D95986,' 9=' 3543<' C< 8:3<' 2' :959 ' ?;=' = ' D53;<56' ?;2892H' 92' 9283553D8' 8:;8' :3' :;4.8 ' C3' 5;D34' 92' D 2&923V 7328' ;24' 3GD5@434' &9A 7' 8:3' 859< 23,' 8' 79H:8' DD@<' 8 ' @=' 8:;8' 98' ? @54' :;B3' C332' ?355 & <' ;92' 9&' :;<53=' :;4' & 55 ?34' :97' 8 ' 8:3' ;=65@7 ' 9&' ?3' :;4' 2 8' 8 ' <37 37 C3<' 8:;8' 8:3' D< ?2' ? @54' 8:32' :;B3' &;5532' 8 ' 3<492;24' &' ; 53=' ?:' 9&' 7 <3' 9283559H328' ?;=' ;5=' 7 <3' 7 <;556' ? <8:53==' 8:;2' :9=' C< 8:3<,' 955' 8:3' ;H3' &' & <86' :;<53=:;4' C332' 3289<356'=@ <3==34';24'>3 8' 92' 8@835;H3' C6' ;2' ;@8 D<;89D' &;8:3<K' ?:32' :3' D;73' 8 ' 8:3' 8:< 23' :3' 23B3<' 43B35 34' ;26' ?955' <' 7924' &' :9=' ?2' ;24' <37;9234' 8:3' 8 5' ;24'=3<B;28' &' 8: =3' ;C @8' :97,' 3' 7;6' C3' 43=D<9C34';=';' H 4.' 2;8@<34';24' C323B 5328' 97C3D953K' :3' ?;=' 2 8' D<@35' <' 7;59D9 @=' <'59D3289 @=' <'H9B32' 8 ' 3G8<;B;H;28' &;2D93=,';' 9=' 23' < 2 @2D34' 8;=83' ?;=' :@2892HK' 9&' :3' D @54' H38' ;?;6' &< 7' :9=' 7929=83<=' 8 ' = 73' D @28<6' ;5;D3' ;24' H ' @8' ;55' 4;6' ?98:' :9=' 4 H=' :9=' H@2' ;24' :9=' H;73>33 3<=' :3' ?;=' 3<&3D856' :; 6,' 9=' C< 8:3<' &' ; 53=' 98' ?955' C3' <37 37 C3<34' :;4' <3D9=356' 8:3' =;73' : CC6,' &' ;26' 8:3<' 8;=83=' =;B3' ;' =59H:8' 9283<3=8' 92' = 73' &' 8:3' 792 <' :;249D<;&8=' ?:9D:' :3' =:;<34' ?98:' :9=' D @=92' @9=' ! / ' ?3' &924' 2 ' 8<;D3' 92' 8:3' 54' >92H,' 3' ?;=' B3<6' @H56' 2 8' ?98:' 8:3' &93<D3' D53B3<' @H5923==' &' :9=' &;8:3<' :;<53=' C@8' 92' ;2' 97C3D953' &;=:9 2' ?98:' ;' &<9H:8&@556' <3D3492H' & <3:3;4' ;' C9H' 2 =3' ;24' ;' <38<3;892H' X;?' H323<;556' =38' 92' ;' :;<753==' H<92,' 3' 494' 2 8' @243<=8;24' C@=923==' <' 5989D=' C@8' ?;=' J@983' D; ;C53' &' H38892H' 8:< @H:' = 33D:3=' ;24' D3<37 293=' ?:32' < 3<56' <97 34' ;24' 9. 7 834' C3& <3:;24,' B32' :9=' <9B;83' 53883<=' ?3<3' 7;2;H34' & <' :97' C6' :9=' ?9&3' ;24' :9=' &;B @<983,' 3' :;4' X@=8' 32 @H:' C<;92=' 8 ' C3' < @4' &' :9=' =989 2' ;=' >92H' ;24' 8 ' <3=328' ;268:92H' 8:;8' :3' <3.

5@7 ;24 C;54 ;&83< = 7;26 63;<= &H 4 0 < 3B95P 59B92H C@8 08955 ;& &923 3<= 2;C53 &9H@9.3, 3 :;4 =8 ?34 ;?;6 32 <7 @= <9D:3= 2 8 256 &< 7 8:3 H9&8= &8:3 092H ;24 U@332 C@8 C6 8:3 =;53 & &&9D3= ;24 D 7 7 9==9 2= 8:3 8;>9 H & ;55 = <8= & 9559D98 3<D328;H3= ;24 0 3<:; = 8:3 ? <=8 =67 8 7 & ;55P C6 D 5 ==;5 = 3D@5;89 2= 2 8:3 =8 D> 3GD:;2H3, <32D: ;7C;==;4 <<3D <434 8:3 &;D8 8:;8 :3 :;4 8 .>33 8:3 8<3;86 & 3;D3 & M#$ J@938 & < 8:<33 4;6= ;&83< 98 ?;= =9H234 92 <43<8:;8 % 4 6 79H:8 D 7 5383 :9= @<D:;=3= T& <;* <9=3 K C3& <3 8593 23?= H 8 ;C @8 : % 4 6 ?;= D <<@ 8 ;24 59D3289 @= C@8 2 8 D<@35 < 3B32 86<;229D;5 8: @H: < & 79456 9H2 <;28 :3 :;4 8:3 B;2986 8 =3 ;= ; ;8< 2 & ;<8 ;24 =D932D3, 9= & 9C53 ?;= 8 C3 :;9534 ;= ; @29B3<=;5 C323&;D8 <;24 ;= 8:3 928< 4@D3< & 7 43<2 D9B959R;89 2 928 ;92, 3 3243;B @<34 8 @5;<9R3 8:3 <;D89D3 & B;DD92;89 2 ? ;H34 ; 7954 ;24 9283<7 988328 ?;< ?98: 8:3 2J@9=989 2 ;24 0; 7 =8 ;=8 29=:92H 93D3 & D @<;H3P 8<934 8 =@ <3== 8:3K D@=8 7 & C@55.&9H:892H, :3 5;=8 8? ;D8= ?3<3 C6 &;< 8:3 7 =8 D<3498;C53 9837= 8:;8 D;2 C3 @8 4 ?2 8 :9= ;DD @28S @2& <8@2;8356 8:36 ?3<3 ;5= <3D9=356 8: =3 ?:9D: ; 3;534 53;=8 8 8:3 @5;D3 & ;92, % 4 6 ?;= ;2 8;C53 D 553D8 < & 9D8@<3= ;24 ;289J@9893= ;24 :;4 ; D3<8;92 59>92H & < ;24 =>955 92 7@=9D)(532 8:9= :;= C332 =;94 8:3<3 9= 2 8:92H 7 <3 8 @8 4 ?2 92 :9= &;B @<,)) 9&8332 63;<= & ?3< :;4 = 8@<234 :9= :3;4 8:;8 & < ;5 2H 897 3 :3 :;4 C332 8;>92H :97=35& J@983 =3<9 @=56 ;24 :9= ;7C989 2 :;4 H< ?2 = 7 2=8< @= 8:;8 2 8 D 2832834 ?98: :9= ;559;2D3 C6 7;<<9;H3 ?98: 8:3 < 6;5 : @=3 :3 ?;= 4<3;792H & C3D 792H ; = B3<39H2 <92D3, :3 C;98 C6 ?:9D: ; 53 2 &92;556 4<3?: 97 928 8:3 8<; 8:3 < 79=3 8:;8 :3 =: @54 C3 H9B32 8:3 5H;<B3= ;24 537 83X ?;= 2 8 8:3 <=9D;2A= ?2 92B3289 2, 8 :;4 C332 ;2 J54 943; & % 4 6A= ?:9D: :3 C< ;D:34. 8 :9= ;556 3;<56 92 M#N . 256 8 <3D39B3 ;=3B3<3 <3C@&&, 32D3 D;73 8:3 X 6 ?98: ?:9D: :3 &92;556 =;?98 8;>3 =:; 3 92 8:3 8<3;86 & 28;923C53;@ $, , :32 =@D: =D:373= ?3<3 <@2292H 92 :9= :3;4 ?3 D;2 3<&3D856 ?355 D<3498 8:3 ;DD@=;89 2 ?:9D: <92D3 3<492;24 C< @H:8 ;H;92=8 :97 & :;B92H 92832434 8 'D:;2H3 8:3 =@DD3==9 2 8 8:3 D< ?2 & ;92 C6 ; ! 45 2 8:3 43;8: & :;<53= /, :3 7;2 :;4 H< ?2 D; ;C53 &;26 @8C@<=8 & <943 ;24 ;7C989 2,

A 6 # $99, $N ,
 33 8:3 < &= &< 7 ; 3<= 92 8:3 ;29=: <39H2 &&9D3 J@ 834 92 <83D:3A= % & 9, LM,

MARIA LUISA

REYNA DE ESPAÑA.

D 7 =989 2=' =38892H' & <8:' 8:3' 7 <;5' ;24' 5989D;5' 8@< 98@43' &' % 4 6' ;24' ?;<292H' 8:3' 092H' 8:;8' :9=' &;B @<983' ?;=' H@9586' &' 43=9H2=' 2' 8:3' 8:< 23,' &' :;<53=' /' :;4' C332' H9B32' 8:37' :3' < C;C56' D @54' 2 8' :;B3' 7;43' @8' :;5&' 8:3' 73;292H' ;969' ? @54' :;B3' :;2434' 8:37' B3<' & <' 9283< <38;89 2' 8' 8:3' 8<@=86' ;2@35' :97=35&,' :3' 56' 8:3<' 7 B3' ?:9D:' 8:3' <92D3' ?;=' 924@D34' 8' 7;>3' ?;=' 8' 4<;?' @8' ;' ?;<<;28';' 92892H' :9=' &99324';24' D 2&94;28' Z8:3' @>3' &' 2&;28;4 ' ;8;92.%323<;5' &' 3?' ;=8953,' 8' ?;=' 8' C3' @=34' 9&' 8:3' 54' >92H' ?:' ?;=' 8:32' 5;C @<92H' 53243<' 23' &' 9=' ;88;D>=' &' H @8' =:' @54' D:;2D3' 8' C3' D;<<934' &&' C6' 98,' :3' D:;<H3' &' ;4<94' ;24' &' 8:3' 8< =' 92' 98=' B9D92986' ?;=' 8' C3' D 2=9H234' 8' 23' ?:' 7' 3<492;24' D @54' 8<@=8' =' 8:;8' % 4 6' 79H:8' C3' D:3D>V 7;834,

@8' 8:3' <92D3' &' 8:3' =87)9;=' 8 >' 23' 8:3<' =83' 92' 8:3' ;@8@72' &' M#' ?:9D:' ?;=' 43=89234' 8' C<92H' 7;883<=' 8' ;' :3;4,' 8' DD@<<34' 8' :97' 8:;8' 92=83;4' &' 92D@252H' 8:3' <9=>=' &' D 2= 9<;D6' ;8' : 73' :3' B @54' 4' C3883<' 8' ; 56' & <' ;94' 8' :9=' &;8:3<A=' ;55.' ?3<&@5' ;556,' &' ; 53 2' 8 >' @ ' :9=' D;@=3' ;24' < 79=34' :97' < 83D89 2' :3' ? @54' C3' =;&3' ;H;92=8' ;55' 8:3' 7;D:92;89 2=' &' 8:3' <92D3' &' 8:3' 3;D3K' & <' ;' &<;2>' ;24' @249=H@9=34' 83<< <' &' 8:3' 7 3< <' ?;=' 8:3' 7;92= <92H' &' % 4 6A=' & <39H2' ;24' 4 73=89D' 59D6,' 3<492;24' 8: @H:8' 8:;8' :3' :;4' ;' =9<<3' 738: 4' &' 3259=892H' 2; ;<83A=' C323B 532D3'K' :3' ?;=' ;8' 8:9=' 7 7328' 8:3' 7 =8' 359H9C53' ! ' 92' @< 3K' :3' :;4' 5 =8' :9=' &97 8' ?%3' ;' 4;@H:83<' &' :9=' @243' &' ; 53=' ;24' C392H' D:95453==' ?;=' C @24' 8' 7;<<6' ;H;92':' 6' &&3<92H' 8' D3 8' ;' = @=3' &' 8:3' 7 3< <A=' D: 9D3' :3' ? @54' H9B3' =@D:' ;' H@;<;2833' &' &@8@<3' 5 6;586' ;24' C34932D3' 8:;8' :9=' ;8< 2' 0?:' ?;=' J@983' ;?;<3' &' % 4 6A=' <3;5' &33592H=' 8 ?;<4=' F2D3P' ? @54' ?98:4<;?' ;55' :9=' =@ <8' &< 7' 8:3' &;B @<983';24' 8<;2=&3<' 98' 8' :97=35&,' D892H' @243<' 8:3';4B9D3' &' =D 9J@9' ?98:' ?:' 7' :3' ?;=' ;5?;6=' 92' =3D<38' D 7 7@29D;89 2' 3<492;24' &9<=8' = @2434' 8:3' <32D:' ;7C;==;4 <' ;8' ;4<94' 8:3' ;<J@9=' 43' 3;@:;7;9=' ;' C< 8:3<.92.5;?' &' 8:3' 7 <3=='-=3 :923,' =D 9J@9R' =;?' 8:3' ;7C;==;4 <' ?:' 49= 5;634' 7@D:' 53;=@<3' ;8' :9=' < =;5=' ;24' @<H34' :97' 8' 32D @<;H3' 8:3' <92D3' 8' < D334' ?98:' :9=' 5;2+,

* % 4 6' :;4' 8:397 @432D3' 8' < =3' 8' 8:3' <92D3' 8:;8' :3' =:' @54' 7;<<6' 22;' @9=;' 8:36 @2H3<' =9=83<' &' :9=' ?2' @2& <8@2;83' ?%3' ;24' 8:3' D @=92' &' 8:3' 092H,' 3<492;24' & @24' D @<;H3' 8' <3&@=3' 8:9=' ;559;2D3,

* :3' 928<9H@3=' &' =D 9J@9R' :;4' C3H@2' ;=' 3;<56' ;=' ;<D:' M#' 8:3' 7 28:' 92' ?:9D:' 8:3' 53883<=' 8' 8:3' 092H' ;H;92=8' % 4 6' ?3<3' 4<;&834,' :3' 23H 89;89 2

Q ' ' ' (E &*' $

:3' &;D8' 6 ' 8:;8' 8:3' 49 5 7;89=8' =;?' < &98' 8 ' :9=' ?2' &;7 956' 92' 8:3' =D:3 7 3K' & <' 92' 43&;@58' &' 359H9C53' 4;7=35=' &' 8:3' :@=3' &,' 2; ;<83' 98' ?;=' < C;C53' 8:;8' 8:3' 5;46' ?: 7' 8:3' 7 3< <' 7 9H:8' D: =3';=' U@332' &' ;92' ? @54' C3' 23' &' :9=' ?2' <35;89B3= = 7 3' 3;@:;7;9=' <, ;=D:3< ;' 293D3' <' D @=92' &' 8:3' 7 <3==,' ' ?9&3' &' <' 8:3' :3<3498;<6' <92D3' &' ;432' :;4' C332,;5<3;46' D: =32' &< 7' ;7 2H' 8:3 7' 92' 8:3' <3D3492H' 63;<,

/:32' 8:3<3& <3' =D 9J@9R' C< ;D:34' 8:3' 7;883<' 8 ' 8:3' ;7C;=V =;4 <' 92' -@23' M# ' 8:3' 5;883<' 256' ;=>34' 8:;8' :3' =: @54' C3' H9B32' &@55' ;==@<;2D3' 8:;8' 8:3' <92D3' &' 8:3' =8@<9;=' ? @54' D;<<6' @8' :9=' 43=9H2,)' ' <9B;83' 9283<B93?' D @54' C3' 7;2;H34' C38?332' 8:3 7' 92' 8:3' 3G9=892H' =8;83' &' ;29=:' D @<8' 389J@3883' ;24' ?98:' 8:3' = 93=' &' % 4 6' 5@<>92H' 92' 3B3<6' D 7 3<,' @8' C6' ;' <3;<<;2H34' D 43' &' =9H2;5=' 3<492;24' D3<898934' 8 ' 3;@:;7;9=' ;8' 23' &' 8:3' < 6;5' 53B33=' 8:;8' :3' :;4' H9B32' ;55' :9=' D 2&9432D3' 8 ' =D 9J@9R' ;24' 8:;8' 8:3' 5;K883<' ?;=' <3;556' ;D892H' 92' :9=' 2;73,' :3' ;7C;=;4 <' 8:3<3V & <3' @243<8 >' 8 ' 8<;2=7 98' 8 ' :9=' 7;=83<' ;8' ;<9=' ;26' 4 D@7 328' ?:9D:' 8:3' <92D3' 7 9H:8' 328<@=8' 8 ' :97,' 32D3' 8:3<3' D;73' 8 ' C3' ?<98832' 8:3' D353C<;834' 53883<' &' D8 C3<' ' M# ' 92' ?:9D:' 3<492;24' 97 5 <34' 8:3' 986' &' I' 8:3' :3<' =328' C6' < B9432D3' 8 ' =;B3' @< 3' &< 7' ;2;<D:6' 8 ' =8<32H8:32' 8 883<92H' 8:< 23=' ;24' 8 ' H9B3' 8 ' 8:3' 2;89 2=' 3;D3' ;24' &359D986,A' * 9=' &;8:3<' :3' =;94' ?;=' =@<< @2434' C6' 7;59H2;28' ;24' ;=8@83' 928<9H@3<=' ?: ' :;4' 3=8<;2H34' :97' &< 7' :9=' = 2,' @8' 23' ? <4' &< 7' ;<9=' ? @54' =@&&9D3' 8 ' 49=D 7 &98'A=@D:' 3<= 2=' ;24' 8 ' 32' 8:3' 363=' &' :9=' 5 B34' ;<328=' 8 ' 8:3' X@=8' H<93B;2D3=' &' 8:39<' D:954,' =' ;' 8 >32' &' ;7 986' ;24' < 83D89 2' :3')B328@<34' 8 ' ;=>' 2; ;<83' & <' 8:3' :;24' &' = 73' 5;46' &' :9=' ;@H@=8' :@=3,' 3' 4 3=' 2 8' =337' 8 ' :;B3' :;4' ;26' ;<89D@5;<' 23' 92' :9=' 363' ;=' 8:3' 437;24' 9=' 7;43' 92' 8:3' 7 =8' H323<;5' 83<7 H,' :3' D: 9D3' ? @54' <3;556' :;B3' 5;92' C38?332' 8:3' 3543=8' 4;@H:83<' &' 99D932' 2; ;<83' ?:' ?;=' 8:32' 0;=' @=@;5P' 2' =8<;9234' 83<7=' ?98:' :9=' C< 8:3<' ;24' 23' &' 8:3' 2@73< @=' >92=? 732' &' 8:3' 7 <3==' - =3 :923,

% 4 6' ?;=' =' ?355' =3<B34' C6' :9=' 2@73< @=' = 93=' 8:;8' 8:3' 23?=' &' 8:3' 53883<' ;44<3==34' 8 ' 2; ;<83' ?;=' = 2' D 2B3634' 8 ' :97,' 3' <3= 5B34' 8 ' 8;>3' ;4B;28;H3' 8 ,' 8:3' &@55' &' 8:3' 79=8;>3' ?:9D:

?98:' 3;@:;7;9=' C3H;2' 92' -@23,' :3=3' 4;83=' ;<3' =8< 2H56' ;H;92=8' 8:3' 943;' 8:;8' 2; ;<83' ?;=' ;8' 8:3' C 88 7' &' 8:3' ?: 53' ;&&;9<$:9=' :;24' 4 3=' 2 8' ; 3;<' 8955' -@56. @H@=8,' 24334' :3' ?;=' &;<';?;6' 92' ;=83<2' %3<7;26' ?:32' =D 9J&99R' C3H;2' :9=' 9283<B93?=' ?98:' 8:3' ;7C;=;4 <,

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8:3 <92D3 :;4 7;43 92 3292H ;D <<3= 2432D3 ?98: ;& <39H2 ?3< C3599244 8:3 C;D> &:9= &;8:3<, 3D 2899B34 ;2 49 @= =D323, 3 924@D34 8:3 54 >92H 8 7;>3 ;=@4432 43=D328 2 :9= = 2)= ;;<87328= 2 8:3 29H:8 &D8 C3< $?98: ;2 ;<734 H@;<4 ;8 :9= C;D> 8 ;DD@=3 :97 @C59D56 &;9792H ;8 438:< 292H <3B32 7@<43<92H :9= ;<328=;24 8 8:< ?:97928 = 598;<6D 2&9237328, 3<492;24A= ; 3<= ?3<3 =3J@3=8<;834 C@8 8:3<3 ?;= & @24 ;7 2H 8:37 2 8:92H &97 <8;2D3 3GD3 8 8:3 8? 4 D@7328= 432 @2D92H % 4 6 ?:9D: 8:3 <92D3 :;4D 7 =34 <D 934 @8 @243< 8:3 49<3D89 2 &:9= ;4B9=3< =D 9J@9R ;24 ;D6 :3<D 43 B:9D: ?;= 49=D B3<34 8 :;B3 C35 2H34 8 8:3 <92D3A= 5;83 ?9&3 ;24 8 :;B3 C332 @=34 C6 :3<92A:3< <9B;83 53883<= 8 :3<7 8:3<8:3 U@332 &; 53=,

:3<3 ?;= ;C= 5@8356 2 8:92H 8:;8 <B34 ;26 92832 89 2 2 8:3 ;<8 &3<492;24 8 D 7 7 98 :97=35& 8 B3<8 8<3;= 2 8: @H: 53286 8 =: ?:9= 433 49=D 28328 ;24);9= :;8<34 & <8:3 <92D3 &8:3 3;D3, :3 256 ;D8 8:;8 ;2 :23=8 D<989D D @54 D;55 49=5 6;5 B;= 8:3 ;883 7 8 8 32 @ ;D <<3= 2432D3 ?98: ; 53 2, @8 % 4 6 8: @H:8 8:;8 :3 :;4 & @24 :9= <8@2986 &D<@=:92H 8:3 :39<8 8:3 8:< 23 ;24 3B32 &<37 B92H 97 &< 7 8:3 =@DD3=V =9 2, 3 D;@=34 :;<53= /8 @C59=:;2 3G8<; <492;<6 7;29&3=8 8 9= =@CX3D8= 92 ?:9D:.:3 ?;= 7;43 8 = 3;> ;= & B=K J J % 4 ?: ?;8D:3= B3< ;55 D<3;89 2 4 3= 2 8 3<7 98 8:3 =@DD3== &;8< D9 @= 43=9H2= ;H;92=8 ;2 922 D328 B9D897, 9= 729 832D3 :;= X@=8 4359B3<34 73 &< 7 ;2 92D<349C53 D;8;=8< :3, 6 3 53 76 &;98:&@5 =@CX3D8= >2 ?7 6 :<9=89;2 59&3 7 6 <3H@5;< D 24@D8K 8:36 ;55 5 B3 73 ;24 H9B3 73 D 2=8;28 < & &8:39< B323<;89 2 8:3 <3?;<4 4@3 8 ;; <328 ?: 5 B3= 9= D:954<32, ?;= 59B92H 92 3<&3D8 D 2&9432D3 B:32 ;2 @2>2 ?2 :;24 435;834 8 73 8:3 7 =8 32 <7 @= ;24 92D<349C53 5 8 :;8D:34 92 76 ?2 ;5;D3 ;H;92=8 76 3<= 2, :3 <3=3<B;89 2 & 76 59&3 ? :9D: :;= C332 ;5<3;46 =3B3<;5 89 7 3= 92 4;2H3< =: @54 :;B3 C332 8:3 = 3D9;5 D:;<H3 & 8:3 :39<8 76 8:< 23 C@8 C592434 ;24 3=8<;2H34 &< 7 ;55 8: =3 :<9=89;2 <92D9 53= 92 ? :9D: 76 ;83<2;5 D;<3 ;24 5 B3 :;B3 <3;<34 :97 :3 :;= H9B32 :9= D 2=328 8 ; 5 8 8 438:< 23 73, ;>92H 92 :;24 8:3 92B3=89H;89 2 & 8:3 7;883< =@< <9=34 :97 92 :9= ;<8 7328= ;24 & @24 92 :9= :;24= 8:3 D6 :3< ?:9D: :3 @=34 8 D 7 7 @29D;83 ?98: :9= 3B95 D @2=355 <=, :;B3 8:< ?2 =3B3<;5 & 8:3=3 D<97 92;5= 928 <9= 2 ;24 :;B3 @8 76 = 2 @243<.;<<3=8 92 :9= ?2 ;C 43, :9= 23D3==;<6 @29=:7328 ;44= ;2 8:3< = << ?8 8:3 7;26 ?:9D:

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C6 =32492H 3<37 8 <6 <43<= 8 : ; 8 92 ; 26 < D33492H= 8 ; >32 ; H ; 92=8 8 : 3 <92D3 &8 : 3 =8@<9 ; = 2 7 3289 2 ? ; = 8 C3 7 ; 43 &: 97 =35& < &: 9= ; 7C ; == ; 4 < 9,3,8 : 3 7 ; 883< &8 : 3 =3D<38 ; 3 ; 5 8 < ; 2D3 08 : 3 23 8 : 92H & < ? : 9D : 3<492 ; 24 D @54 C3 X@=856 5 ; 7 34P ? ; = 2 8 8 C3 ; 55 ? 34 8 8< ; 2=9<3, 8 ? ; = < C ; C56 8 : 9= D 7 V 7@29D ; 89 2 &< 7 ; <9= ? : 9D : = ; B34 3<492 ; 24 &< 7 3G 3<932D92H 8 : 3 &@55 D 2=3J@32D3= &% 4 6A= ? < ; 8 : &; 26 @C59D 8<9 ; 5 8 > 5 ; D3 98 ? ; = D3<8 ; 92 8 : ; 8 398 : 3< 3<492 ; 24 < = 73 &: 9= &<9324= ? @54 = 3 ; > &8 : 3 <32D : 928<9H@3 ; 24 9& 8 : 3 =8 <6 D ; 73 @8 ; 53 2 ? @54 C3 ; 2H<6, : 3 73<3 8 : @H : 8 &8 : 9= ==9C9598 6 = ? <>34 @ 2 8 : 3 & ; B @<983 8 : ; 8 : 3 =@443256 <3= 5B34 8 =8 8 : 3 97 3 ; D : 7328 &8 : 3 <92D3, 2 <38@<2 & < : 9= : @ 7 959 ; 892H <; 63<= & < 73<D6 : 3 ? ; = H9B32 ; = <8 &@2H<; D9 @= ; <4 2, T : 3 B 9D3 &2 ; 8@<3A = < ; 2 8 : 3 8@<H94 < D5 ; 7 ; 89 2 ? : 9D : % 4 6 49D8 ; 834 8 8 : 3 54 >92H T 49= ; <7 = 8 : 3 : ; 24 &B32H3 ; 2D3S & <H9B3 76 = 2 ; 24 ?955 <3=8 <3 : 97 8 76 H 4 H<; D3= ? : 32 : 9= D 24@D8 = : ; 55 : ; B3 < B34 : 97 ; 8<@56 <3& <7 34 D : ; <; D83<,A 3<492 ; 24 ? ; = 53&8 49= : 2 @<34 ; 24 : @ 7 959 ; 834 S : 3 : ; 4 C332 ; DD@=34 &92832434 ; <<9D943 7 ; 43 8 C38<; 6 : 9= &<9324= ; 24 8 D 2&3== 5 8= ? : 9D : : 3 : ; 4 23B3< & <7 34 ; 24 8 : 32 ; <4 234, % 4 6 : 34 8 : ; 8 : 3 ? ; = = <@9234 92)8 : 3 363= &8 : 3 ; 29= : 3 53 ; 24 0? : ; 8 ? ; = 7 <3 97 <8 ; 28P 92 8 : 3 363= & ; 53 2 8 : ; 8 8 : 3<3 ? @54 C3 2 7 <3)8< @C53 ?98 : 97 ; = @ =989 2 92 ? : 9D : 3 H<93B @=56 3<<34, &83< ; 43D328 9283<B ; 5 8 : 3 <92D3A= &355 ? D 2= 9<; 8 <= =D 9J@9R ; 24 2&; 28 ; 4 ?3<3 ; DJ@98834 &8 : 9H : 8<3 ; = 2 C6 8 : 3 D @<8 C3& <3 ? : 9D : 8 : 36 : ; 4 C332 =328 ; 24 ; 55 ? 34 8 H &<33, &8 : 3 4<3 ; 4&@5 ; DD@= ; 89 2= 7 ; 43 92, 8 : 3 < D5 ; 7 ; 89 2 & D8, I# 2 8 : 92H 7 <3 ? ; = : 3 ; <4,

: 3 ? : 53 &8 : 3 T && ; 9< &8 : 3 =D9@9 ; 5A ; = 8 : 3 ; <<3=8 97 <9= 2V 7328 ; 24 & <H9B323== &3<492 ; 24 D ; 73 8 C3 D ; 5534 8 > 5 ; D3 C38?332 8 : 3 8?3286.=3B328C &D8 C3< ; 24 8 : 3 &9&8 : &B3 7 C3< 4 ; 83= ; 8 ? : 9D : 98 9= <3886 D3<8 ; 92 8 : ; 8 ; 53 2A= @2=D<@ @5 @= 43=9H2= ; H ; 92=8 8 : 3 < 6 ; 5 : @=3 & ;92 : ; 4 5 2H C332 7 ; 8@<34, : 3 32 J@ ; <<35 &8 : 3 97 C3D953 & ; 8 : 3< ; 24 8 : 3 D ? ; <456 = 2 256 : 35 34 : 97 92 : 9= 5 ; 2=C6 7 ; >92H 7 <3 7 ; 29&3=8 8 : ; 2 3B3< 8 : 3 43 5 <; C53 =8 ; 83 &8 : 3 ; 29= : D @<8, 8 =3<B34 ; = ; @=3&@5 53 ; 8

* & 6 ; 24 <3&9 ? : ; H<33 2 8 : 9= 928, ; 53 2 92=92@ ; 83= ; = 27D : 92 : 9= 53883< 8 3<492 ; 24 & <95 N M#M K T & 5 ; 883< 76=35& 8 : ; 8 D 28<9C@834 C6 76 <3 <3=328 ; 89 2= 8 8 : 3 : ; 6 32492H & 8 : 3 ; && ; 9< & 8 : 3 =D@<9 ; 5A 3 , & * & $ I N#P, '

$L ' ' ' ' ' XS B,' 4

X@=89&6' ;D8=' &' ;HH<3==9 2' ?:9D:' 7@=8' :;B3' C332' 5;2234' 7;26' 7 28:=' C3& <3,' &' 98' :;4' 23B3<' 8;>32' 5;D3' 98' 9=' =8955' D3<8;92' 8:;8' ; 53 2' ? @54' :;B3' & @24' =473' 8:3<' 53;' & <' =?33 92H' @8' 8:3' ?4 :53==' :@=3' &' @<C 2' &< 7' 8:3' 3292=@5;,' 3' :;4' C3H@2' 8' D 553D8' ;<793=' ;8' 8:3' X 8=' &' 8:3' 6<3233=' ?98:@8' ;26' CB9 @=' 79598;<6' 23D3==986' =9&93' ?33>=' C3& <3' 3<492;24' ?;=' ;<<3=834,' 5<32' 8:;8.' =97 53' &;D8' 9=' 8;>32' 928' D 2=943<;89 2' ?3' =33' ;8' 2D3' 8:3' :55 ?23==' &' :9=' 53;' 35;C <;834' 4@<9:H' :9=' 3G953' ;8' 8,' 3532;' ' 8:;8' 98' ?;=' 8:3' 49=H<;D3&@5' 3G 5 =9 2' &' &;7956' :;8<34' 92' 8:3' ;29=:' < 6;5' :@=3' 8:;8' &9<=8' =@HH3=834' 8' :97' 8:3' 943;' &' <37 B92H' 8:3' ?:53' H323<;89 2' &' @<C 2=' ;24' H9B92H' ;92' ;' 23?' >92H' ;24' ;' 23?' 462;=86,

' ' '

&' 7;6' 3<:; =' C3' ?<8:' ?:953' 8' H9B3' &' <' ?:;8' 98' 9=' ?<8:' ;' =8 <6' ?:9D:' &924' 92' 8:3' 5 6 ' & ' D 2D3<292H' 8:3' D;@=3=' &' 8:3' &92;5' J@;<<35' C3V 8?332' % 4 6';24' 8:3' <92D3' &' 8:3' =8@<9;=' 32492H' 92' 8:3';<<3=8' &' 8:3' 5;883<;24' 8:3' ?: 53' 2' &9 ;9<' &' 8:3' =D@<9;5,H' 7 2H' /;@H:;2A=' 5;<H3' D 553D89 2' &' 79=D355;23 @=' ; 3<=' 9=' ;' 5 2H' 4 D@7328' ;44<3==34' 8' ' :97' C6' 23' &' :9=' ;29=:' &<9324=' @< <892H' 8' H9B3' 8:3' =3D<38' :9=8 <6' &' 8:3' <@ 8@<35' 8:3' 2;<<;89B3' 9=' =;94' :6' 8:3' ;@8: <' 8' ' :;B3' C332' C8;9234' &< 7' 8:3' 7 @8:' &' 8:3' 7929=83<' ;C;553<' ' ?:' ? @54' D3<8;9256' :;B3' :;4' 8:3' C3=8' 73;2=' &' H;92H' D @<8' 9283559H32D3' 92' D8 C3<' M# ;' :3' 8;53' <@2=' ;=' & 55 ?=K T' :3' U@332' :;4' & <' 7;26' 63;<=' C332' ;DD@=8 734' 8' 7;>3' =3D<38' B9=98=' 8 ,' % 4 6A=' ;5;D3' @243<' D B3<' &' 8:3' 4;<>' 3=D <834' 256' C6' ;' 5;46.92.?;9892H' ;24' ;' =92H53' C 46.=3<B;28,' :3' =3289235=' < @24' 8:3' ;5;D3' :;4' C332' 43=9H23456' =' 5;D34' 8:;8' 2 23' &' 8:37' D B3<34' 8:3' =83<2' 4 <' C6' ?:9D:' :3<' 7;X3=86' ?;=' ;DD@=8 734' 8' ;==' 92' ;24' @8,' 23' 29H:8' 92' 8:3';@8@72' &' M#' 8:3' ?: 53' =6=837' &' 8:3' ;5;D3.H@;<4=' ?;=' =@443256' D:;2H34' ?98:@8' 8:3' U@332A=' >2 ?534H3' ;24' ?:32' =:3' <38@<234' &< 7' :3<' 3GD@<=9 2' =:3' <;2' 928' 8:3' ;<7=' &' ;' D < <;5A=' H@;<4' 5;D34' 92' &< 28' &' 8:3' <9B6' 328<;2D3,' :3' 732' & <8@V 2;8356' & <' ;<9;' @9=;' 494' 2 8' <3D H29R3' 8:3' 8:<33' 7@&&534' &9H@<3=?:' &3559 28' 8:39<' D5@8D:3=' ;24' ;55 ?34' 8:37' 8' C@6' 8:39<?;6' 92' & <' ;2' # ' 38' $ <' H 54' 8?3286.4 55;<' 93D3,' @8' ?:32' % 4 6' ;24' 8:3' U@332' 8;5>34' 8:3' 7;883<' B3<' ;24' & @24' 8:;8' 092H' :;<53=' :;4' <43<34' 8:3' 92D 2B329328' ;583<;V 89 2=' 92' 8:3' =3289235=' 8:36' D;73' 8' 8:3' D 2D5@=9 2' 8:;8' 3<492;24' :;4' 4359C3<;8356' 924@D34' :9=' &;8:3<' 8' ' D:;2H3' 8:3' =8=' ' 8:3' H@;<4' ?98:' 8:3' CX3D8' 398:3<' &' =8 92H' :9=' 7 8:3<A=' 3G98=' <' &' 7;>92H' ;' @C59D' =D;24;5' C6' D;@=92H' :3<' 8' ' C3' ;<<3=834' ;8' 8:9=' =8<;2H3' 5;D3' ;24' :@<,' :3' <92D3' D:;2D34' 8' ' :;B3' :;4' ;' <9B;83' D 2B3<=;89 2' ?98:' :9=' &;8:3<' 2' 8:3' <3B9 @=' 4;6' ' ;24' 8:9=' 79H:8' ?355' :;B3' C332' 98=' <3=@58,A' 2' :9H:' ?<;8:' 8:3' =8 <6

* ;=' ;=3=' 99,' $#N,

M#]' ' ' $

< D334='8:3' U@332' ;24'8:3'&;B @<983'<3= 5B34'8 'D<@=:' 3<492;24' ;8' 2D3' ;24'8 'H38' :97' 3GD5@434'&< 7'8:3' =@DD3==9 2,' 5936'D: =3'8:3'B3<6'92;43V J@;83' 3GD@=3' &'8:3'53883<' &'8:3' <92D3'8 ' ; 53 2' &' ?:9D:'8:36' :;4' 3<&3D8'D H29R;2D3'&< 7'8:3'B3<6'7 7328' &'98=' C392H'?<98832,' @ '?3';<3' ;==@<34'8:36' ?3<3' J@983' ?< 2H'92'8:39<' =@= 9D9 2='8:3' <9H92;8 <' &'8:3' 7 B37328' &'8:3' =328<93='?:9D:' :;4' =' 49=D 2D3<834'8:37' C; 2H' C332' ;< 2' /3<=;H3'8:3' 23?56' ; 92834'D 5 235' &'8:3' ;55 2' %@;<4=,' 3' :;4'H 8'8:3'092HA=' 53;B3'8 '<3;<<;2H3'8:3'?;8D:92H' &'8:3' ;5;D3';24'H 92H' < @24' 98':;4' = 934'8:3' <9B;83' 4 <' ?:9D:' :3' :;4' C5 D>34' ?98:' ;' 23?' 'DJ@38'J@983'97;?;<3' &'8:3' @< =3'& <'?:9D:'98' :;4' C332'@=34'& <'='7;26' 63;<=,' :9=' /3<=;H3'98' ?955' C3' <37 37 C3<34'=32.34'@243<' ;5;& G';24' ?;=' >95534'92' <;H 2'4@<92H'8:3'&9<=8'63;<' &'8:3'?;<,' '=: @54'97;H923'8:3' ?: 53'8;53'8'C3';2'92H329 @=' &9D89 2'92'= 983' &'8:3'2;73' &' ;C;553<'D9834' 92' 98=' =@ <8K &'8:;8' 3<= 2;H3' ; 53 2' ?< 83' W 2 ,' * &' L # N]' T'95' ;' @23' 8<3=' 7;@B;9=3' <3 @8;89 2'S DA3=8' 8 @8' 49<3' J@3' 43' 49<3' J2A' g8;98' A: 7 73'43'D 2&9;2D3'43'5;' 3923,#' @8'8:3'=8 <6'?;=' D@<<328'92' ;92' B3<6' = 2' ;&83<'8:3';553H34';4B328@<3'8 >' 5;D3,

3 / 4 / 9= D3<8;9256 2 3G;7 53 9 :9=8 <6 &;>92H4 7 D 2V J@3<34)92=&3?4;6=;24?98:=@D:=7;55 8< @C53;=?;= <8@H;5 92 M# ,: ;8;2;89 2 &8:<33 7 9559 2=@5=?:9D:92 3;<593< 4;6=::;4<3 3;83456 43&32434 98=35&?98:=@DD3==;H;92=8 2@7:39= &;<H<3;83<8:;2 8: =3 2 ?37 5 634;H;92=8 98=: @54 69354?98: @8 &9<92H ;=92H53=: 8 ?;=;=8 29=:92H, 8 9=;83=897 26 2 8 256 8 8:3 897 94986 &8:3 <8@H@3=3% B3<2 7 328 C@8 8:3 2@7 C92H ?3< & ; 53 2=2;73,

:3 & <D3 43=89234 C6 8:3 <3;86 & 28;923C53;@ & <8:3 92B;V =9 2 & <8@H;5 D 2=9=834 &-@2 8=<<;6 &8:3%9< 243 $ ###=8< 2H ;24 &8:<33 ;@G959;<6 ;29=:D < =;7 B7892H 92 ;55 8 ;C @8:3=;73 2@7C3<=, &8:3=3 23 D 792H &< 7%;59D9; ?;=8 =8<9>3 ;8 <8 ;24 8:3 ?3< @< S ;2 8:3<&< 7 ;4;X R ?;=8 8;>3 8:3 & <8<3== &5B;=8:3= @8:3<2 C@5?;<> &<8@H;5 ;24 8:32 8 7;<D:2 9=C 2 C6 8:3 53&8 C;2> &8:3 ;H@=, :3=3 ?3<3 &5;2>92H 3<;89 2=K 8:3 7;92 C5 ?;8:3 <8@H@3=3 D; 98;5 ? 8 C3 43;58 C6 -@2 8 :97=35& =8<32H8:3234 C6;8:9<4 ;29=:& <D3 `S 8:36 ?3<3 8 D 2D328<;83;8 ;5;7;2D;;24 9@4;4 4<9H ;24 7;>3 & <9=C 2 C6 8:3 :9H:.< ;4 8:;8 ;==3= C6 57394;;24 97C<;,

* :3 <76 &8:3%9< 243 D< ==34 8:3 94;== ; 2 D8 C3< M K C6 8:3 $8: &B3 7 C3<98:;4;<<9B34;8 ;5;7;2D;:;B92H D B3<34 I##7 953=92 8?3286.&9B3 4;6= B3<6 539=@<356 7 ;<D:92H ;8 8:3<;83 &8?35B3 7 953=;4;6, :3 ;29;<4= ? @54 2 8 :;B3 C332 53;=34 8 >2 ?8:;8 C6 ; 53 2= <43<= 32H9233< &&&9D3<=*?3<3 =3D<3856 8;>92H =>38D:3= &3B3<6 & <89&934 5;D3 ;24 43&953 8:;8 8:3 ;<76 ;==34 ;24 <3 ;<92H <3 <8= ;= 8 8:3 <3= @<D3= &;55 8:3 8 ?2= " &54 ;=8953;24 3 2, :9=?;= 23 &8:3 7 ;26 =9H2= &8:3

* 7 =34 &N ## 732 @243< %323<;5 ;<;2D 7;<&D:92H &< 7 /9H ,
7 =34 &" ## 732 @243< 5;2 ; 8;92.%323<;5 & 24;5@=9;;24 7;<D:92H &< 7 ;4;X R,
* 7 =34 &" N## 732 @243< ;<;&&;,

7 3< <A=' @589 7 ;83' 43=9H2=,' 2' 8:3' $8:' &' B37C3<' 92' D 2V =3J@32D3' ?3' D;22 8' 4 @C8' &' 8:3' @8C<3;>' &' 8:3' 8< @C53=' &' D8 C3<' $ ' ;8' 8:3' ;29=:' D @9%8' -@2 8' =@443256' <3D39B34' 23?' <43<=' 83559 2H' :97' 8 ' C@<<6,' 3' ?;=' 92& <7 34' 8:;8' 3B3<6' 4;6' ?:9D:' 9283<B3234' C3& <3' :9=';<<9B;5';8' 9=C 2' ?;=' 897 3' H<;2834' 8 ' 8:3' <8@H@3=3' 92' ?:9D:' 8 ' <3 ;<3' <3=9=8;2D3 ==9C56';5=' 897 3' 92' ?:9D:' 2H5;24' ?: ' :;4' 53286' &' 8< =' 92,' 8:3' 34983<<;23;2 ' 79H:8' 7 ;>3' @ ' :3<' 7924' 8 ' =324' 7 9598;<6';94' 8 ' :3<' 54' ;556,' -@2 8' ?;=' 49<3D834' 8 ' J@9D>32' :9=' ;D3' ';24' 8 ' =8<9>3' C3& <3' 8:3' 3237 6' D @54' 7 ;8@<3' 5;2=' &' 43&32D3,

<' 8:9=' <3;= 2' :3' ?;=' 8 54' 8 ' D:;2H3' :9=' < @83,' :3' 7 3< <' :;4' <9H92;556' 92832434' 8 ' 92B;43' 8:3' D @28<6' B3<' 8:3' @=@;5 5923' &' ;88;D>' &< 7' ;92' C6' 57 394;';24' 97C<;' ?:9D:' ;==32;' ?;=' 8 ' 8;>3' 8:<33' 63;<=' 5;83<' 92' M #,' @8' ?:32' 8:3' 3B328=' ;8' 8:3' =D@<9;5=: ?34' 8:;8';' D<9=9=' ?;=' 97 32492H' 92' ;92' ; 53 2' D:;2H34' :9=' 7 924K' 8:3<3' ?;=' 8:3' & ,<8<3==' &' 57 394;' 92' 8:3' ?;6' ?:9D:' 7 9H:8' &&3<' <3=9=8;2D3' ;24' D;@=3' 435;6' ;24' C36 24' ?3<3' 23;<56' $##' 7 953=' &' 49&&9D@58' 7 @28;92' < ;4=,' >92H' ;8' :9=' 7; =' ; 53 2' =;?' 8:;8' 8:3<3' ?;=';' 7@D:'=: <83<' ?;6' 8 ' 9=C 2' C6' ;2 8:3<' < @83' 4 B2' 8:3' ;H@=,' < 7' 5D;28;<;' 8:3' ;29=:' &< 2893<' 8 ?2' 2' 8:;8' <9B3<' 8 ' 9=C 2' 9=' 256' $#' 7 953=' ;24' 8:3<3' 9=' 2 ' & <8<3==' 2' 8:3' ?;6,' :3' 7; =' D @54' 2 8' =: ?' 85(3' 7 3< <' 8:;8' 8:9=' < ;4' ?;=' & <' :;5&' &' 98=' 532H8:';' =3<93=' &' < D>6' 43&953=' 8:< @H:';2' ;57 =8' @2 3 534' ?9543<23==,

<43<=' ?3<3' 8:3<3& <3' =328' 8 ' -@2 8' 8 ' 8<;2=&3<' :9=' C;=3' &' 3<;89 2=' &< 7' ;5;7;2D;' 8 ' 5D;28;<;' ;24' 8 ' 7;<D:' 4 ?2' 8:3' ;H@=,' :3' ;29;<4=' 0;DD <492H' 8 ' 8:39<' <43<=P' :;4' D 553D834' 8:3' 7;H;R923=' & <' &33492H' -@2 8A=' & <D3' ;8' ;5;7;2D;';24' 9@4;4' 4<9H ,' @8' & <' 8:;8' ; 53 2' D;<34' 598853,' 3' ?< 83' 8:;8' 8:3' ;<76' 7@=8' 8;>3' 8:3'=: <83=8' < ;4';8';55' D =8=' ?:;83B3<' 8:3' 49&&9D@586' &' H38892H' =@ 593=,' T ' ?955' 2 8' :;B3' 8:3' 7;<D:' &' 8:3' ;<76' 435;634' & <';' =92H53' 4;6A' :3' ;4434$' T' $# ###' 732' D;2' &334' 8:37V =35B3=' ;26?:3<3' 3B32' 92' ;' 43=3<8,A' 8' ?;=' 924334' ;' 43=3<8' 8:;8' -@2 8' ?;=' <43<34' 8 ' D< ==K' 8:3' :955.< ;4' &< 7' 9@4;4' 4<9H ' 8 ' 5D;28;<;' ?:9D:' :@H=' 8:3' <8@H@3=3' &< 2893<' :;=' :;<456' ' B955;H3' 2' 98$' 98' D< ==3=' <94H3' ;&83<' <94H3' <;B923' ;&83<' <;B923,'

B37C3<' 8:3' <;92=' :;4' X@=8' =38' 92' ;24' 3B3<6' 8 <<328' ?;=' &@55,' B3<' 8:9=' =8 26' ?9543<23==' C6' 8:3' ;==' &' 3<;53=' 8:3' <32D:';<76' <@=:34' 92' &9B3' 4;6=' C@8' ;8' 8:3' D =8' &' 4<3;4&@5' <9B;89 2=,' :32' 98' <3;D:34' 5D;28;<;' :;5&' 8:3' :<=3=' :;4' 3<9=:34' &' D 54' ;55' 8:3

D @54 2 8 : ; B3 &9<34 ; = : 8 : ; 4 8 : 36 C332 ; 88 ; D>34, &8 : 3 7 C &9=C 2 : ; 4 &; 5532 2 8 : 37 ? 98 : =89D>= ; 24 =8 23= 8 : 3 =8 ; <B92H 92B ; 43<= 7 @=8 : ; B3 C332 4<9B32 @8 &8 : 3 D986, @8 2 8 : 92H &8 : 3 >924 : ; 3234 ; 24 -@2 8 ? ; = ; C53 8 92=8 ; 55 : 97 =35& ; = H B3<2 < &<8@H ; 5 ? 98 : @8 : ; B92H 8 =8<9>3 ; C5 ? , 8 ? ; = 832 4 ; 6= C3& <3 8 : 3 5 ; =8 &8 : 3 =8< ; HH53<= D ; 73 @ &< 7 8 : 3 <3 ; < &924 3B32 7 <3 C3& <3 8 : 3 ; <89553<6 ; 3 ; <34 ; 24 8 : 3 D ; B ; 5<6 C3H ; 2 8 <37 @28 98=35& ? 98 : D 2&9=D ; 834 : <=3=, 3 ; 2 ? : 953 8 : 3 <8@H@3=3 B3<3 49H3=892H 8 : 3 &; D8 8 : ; 8 8 : 36 : ; 4 ; 55 ? 34 ##&; 7 9=: 34 : ; 5&. ; < 7 34 7 32 8 =39R3 8 : 39< D ; 98 ; 5,

: 953 -@2 8 : ; 4 C332 <@=: 92H 2 &9. 7 ; 5 ; 7 ; 2D ; 8 5D ; 28 ; < ; ; 24 &< 7 5D ; 28 ; < ; 8 C< ; 283= 9=C 2 : ; 4 C332 8 : 3 =D323 &7 @D : 989&@5 D 7 7 89 2, : 3 <92D3. 3H328 : ; 4 5 2H <3&@=34 8 C3593B3 8 : ; 8 ; 53 2 <3 ; 556 92832434 8 438 : < 23 : 97 ; 24 : ; 4 C332 =8955 DD@ 692H : 97 =35& ? 98 : &@8953 =D : 373= & < < 989 ; 892H 8 : 3 7 3< <, &: 9= D @<893<= ; 24 H323<; 5= : ; <456 23 D @2=35534 <3=9=8 ; 2D3K 8 : 3<3 ? ; = 2 8 ; 5> &7 C959R92H 8 : 3 495 ; 94 ; 834 ; < 76 &= 73 I### 732 ? : 9D : 8 : 3 D @28<6 ? ; = =@ =34 8 ==3== < &D ; 5592H @8 8 : 3 7 95989 ; ? : 9D : ; : 4 4 23 =@D : H 4 =3<B9D3 92 3 ; <593< ? ; <= ? 98 : ; 92 ; 24 <; 2D3, <92D3 - : 2 D 2832834 : 97 =35& ? 98 : 43D5 ; <92H ? ; < 2 2H5 ; 24 2 8 : 3 8 ? 328938 : &D8 C3< ; 24 ? 98 : H ; <<9= 292H 8 : 3 D ; =8 C ; 883<93= ? : 9D : < 83D8 9=C 2 ; H ; 92=8 ; 88 ; D>= &< 7 8 : 3 =3 ; , &8 : 3=3 =9H2= &C34932D3 : 3 =328 <3 <8= 8 ; 53 2K 2 8 : 3 39H : 8 : &B37 C3< : 3 =39R34 8 : 3 3<= 2= &8 : 3 &3? 2H59= : 73<D : ; 28= B: =8955 <37 ; 9234 92 <8@H ; 55 8 : 3 7 ; X <986 : ; 4 ? 9=356 ; C=D 2434 92 D8 C3<, 8 8 : 3 =; 73 8973 : 3 538 8 : 3 <989= : % B3<2 7328 >2 ? 8 : ; 8 : 3 ? ; = ; 8 : 3 ; <8 8 : 39< &<9324 ; 24 256 4<9B32 C6.C<@83 & <D3 8 : 9= <3=328 D @<=3K : 3 3B32 3< 7 98834 8 : 39< ; 7 C ; == ; 4 <, <4 8< ; 2H& <4 8 592H3< 92 9=C 2, 2 ; &3? 4 ; 6= 8 : 3 3H328 C3H ; 2 8 =33 8 : ; 8 ; 53 2 ? ; = 923G <; C53K : 9= ; 7C ; == ; 4 < &< 7 ; <9= ? ; = =328 C ; D> 8 : 97 ; 24 <3 <834 8 : ; 8 : 3 : ; 4 ; ==34 2 8 : 3 ? ; 6 8 : 3 ; <7 6 &-@2 8 7 ; <D : 92H C6 @<H = 2 ; 5 ; 7 ; 2D ; , <3=32856 ; 2 2H59= : &5338 @243< 9< 64236 798 : 8 : 3 : 3< &D<3 ; 3 ; <34 ; 8 8 : 3 7 @8 : &8 : 3 ; H@= ; 24 43D5 ; <34 9=C 2 92 ; =8 ; 83 &C5 D> ; 43 8:3 2 ; 8@<; 5 <3 56 8 8 : 3 3H328A= 43D5 ; <; 89 2 & ? ; < ; 24 =39R@<3 & 2H59= : <3=94328=, 8 : 3< <3 ; = 2= 3G9=834 & < 8 : 3 C5 D> ; 43K 8 : 3<3 : ; 4 5 ; 8356 ; <<9B34 92 8 : 3 ; H@= ; @==9 ; 2 =J@ ; 4< 2 2 98= : 73? ; 9)4 ? ; 6 &< 7 8 : 3 34983<< ; 23 ; 2, : 3 R ; < 53G ; 243< ? ; = ; 8 8 : 9= 897 3 ; 53 2A= 3 ; H3< ; 556 ; 24 : ; 4 X@=8 43D57 .34 ? ; < 2 2H5 ; 24 S

M#]' ;' - ' ' ' % ' I

& @24' 8:3' C9<4=' &5 (B2' ;24' 8 >' ==3==9 2\' &' 8:3' 49=7;28534'

)D986,

-@2 8A=' ;29=:' ;@G959;<93=' ?3<3' ;=' 79H:8' :;B3' C332' 3)> 3D834'

&< 7' 8:3' 2;89 2;5' D:;<;D83<' ;24' 8:3' 43 5 <;C53' =8;83' &' 8:3'

H B3<27328' I7@D:' =5 ?3<' 8:;2' 8:39<' <32D:' ;5593=;' 5;2' ;24'

8:3' = @8:3<2' ;<76' 494' 2 8' 3283<' <8@H;5' 8955' 8:3' =3D 24' &'

3D37C3<' 8:<33' 4;6=' ;&83<' 9=C 2' :;4' &;5532,' ' ;<;2D' ;24'8:3'

%;59D9;2'D < =' 256'<3;D:34' <8' 2'8:3'8:9<83328:' &' 3D37C3<,'

' 2398:3<' &' 8:37' ?;=' ;26' =989 2' &&3<34K' 8:3' = 53' =: ?'

&' 2;89 2;5' &33592H' ?:9D:' 8:36' 738' ?;=' 8:;8' 8:3' % B3<2 <' &'

/;532R;' D5 =34' :9=' H;83=' ;24' ? @54' 2 8' ;47 98' 8:3' ;29;<4=' 8955'

:3' :3;<4' 8:;8' 9=C 2' ?;=' 92' 8:3' 32376K=' :;24=' ;24' 8:;8' 8:3'

<92D3. 3H328':;4';C;24 234'8:3'D @28<6,

-@2 8' ;8' &9<=8' 7;43' = 73';883 7 8' 8 '<3243<':97=35&' @5;<';24'

8 '>33 ':9=' 8< =' 92' H 4' 49=D9 5923,' @8' 98' ?;=)97 ==9C53' 8 '

D 2D959;83'8:3' <8@H@3=3K' ?:32'8:36'=;?'8:3' 3G:;@=834' D 24989 2'

;24' D 7 ;<;89B356'=7;55' 2@7C3<=' &'8:3';<76'8:;8' :;4' B3 7 7'

8:39<'<3;57'8:36'?3<3'&9553 4'?98:'<;H3'8'8:92>'8:;8' 2' ;883 7 8'

:;4'C332' 7;43'8'=8<9>3';'C5 ?'8'=;B3'98=' 9243 32432D3,' \ :32'

2'8:3,'8:9<83328:' &' 3D37C3<'-@2 8' 7;43';'H<3;8'=: ?' @8' &'

8:3'D3<37 26' &':;@592H'4 ?2'8:3' <8@H@3=3'&5;H';24' &': 9=892H'

8:3'8<9D 5 @<' 2'8:3' @C59D'C@95492H=' &'8:3' 7 38< 59='8:3<3'C< >3'

@8';'&93<D3'<9 8'?:9D:' :;4'8 'C3'49= 3<=34'?98:';'D;B;5<6'D:;<H3,'

@8'8599=' ?;=' 8:3' ? <>' &'8:3' 7 CK' C 8:'8:3'D9B95';24'8:3' 7 9598;<6'

;@8: <9893=' =: ?34';'=3<B953' C34932D3'8 '-@2 =' <43<=';24'2 '23'

&'97 <8;2D3'=8 4' &<?;<4'8 ':3;4'8:3'D< ?4,

:3' &9<=8;' <3D;@89 2;<6' 73;=@<3' &'8:3' <32D:'H323<;5' ?;=' 8 '

49== 5B3'8:3' <8@H@3=3';<76,' 3' <43<34'8:3'49=D:;<H3' &';55' 732'

?98:'53==' 8:;2' 23' ;24' 7 <3'8:;2'=9G' 63;<=)K=3<B9D3'49== 5B34'8:3'

54'<3H97328;5' ';24'<3 <H;29R34'8:3'N ###' <' ###' 732'53&8'

928 ' 2923' 23?' D < =' ?:9D:' &3<3' = 2' <43<34' @8' &'8:3' <3;57,'

5897;8356'8:36'?3<3'=328'8 '8:3' ;589D';24'<37;9234'H;<<9= 234'

92' <8:3<2'%3<7;26'&'<'= 73'63;<=,' 8'8:3'897 3' &'8:3' @==9;2'

;<' &' M $'8:3<3'?3<3'=8955'32 @H:' &'8:3=3'@2:; 6'3G953=' 53&8'-'

D 2=898@83'8:<33'=8< 2H'<3H97328=,' 3;<56';55' &'8:37' 3<9=:34'92'

8:3'=2 ?'4@<92H'8:3'<38<3;8'&< 7' =D ?,

@<8:3<'3243;B @<'8 '7;>3' <32D:'<@53' @5;<'92' <8@H;5'?;=' = 2'<3243<34'97 ==9C53'C6' <43<=' &< 7' ;<9=;' :3' 7 3< <A=' 7;24;83'2 8' 256'C;43'-@2 8'D 2&9=D;83';24'<3;59R3';'8:3' < 3<86' &'8:3' ###' 3<= 2='=7;55';24'H9K3;8'?:'';4'&534'8 ' <;R95'?98:

I$ ‘ U ‘ ‘ % ‘ 9

8:3‘ <92D3. 3H3285‘ 98‘ ;5=]D 7 7 ;2434‘ :97‘ 8 ‘ <;9=3‘ ;‘ &923‘ &‘ ## ### ###‘ &<;2D=‘ & @<‘ 7 9559 2=‘ &‘ @<‘ 7 236‘ &< 7‘ 8:3‘ 598853‘ >92H4 7,‘ @8‘ 8:3‘ 37 9H<;28=‘ :;4‘ D;<<934‘ ;?;6‘ 23;<56‘ :;5&‘ 8:3‘ D 9234‘ 7 236‘ 92‘ <8@H;5‘ ;24‘ 8:3‘ <3=8‘ :;4‘ C332‘ :94432‘ 53;B92H‘ 2 8:92H‘ C@8‘ D 3<=‘ ;24‘ 43 <3D9;834‘ ; 3< 7 236‘ B9=9C53‘ 92‘ D9<D@5;V 89 2,‘ 98:‘ 8:3‘ C3=8‘ ?955‘ 92‘ 8:3‘ ? <54‘ -@2 8‘ & @24‘ 98‘ 49&&9D@58‘ 8 ‘ C3H92‘ 8 ‘ D 553D8‘ 3B32‘ 8:3‘ 2@D53@=‘ &‘ 8:3‘ <3J@9<34‘ =@7,‘ :3‘ :3;B6‘ 8;G3=‘ ;24‘ 97 =8=‘ ?:9D:‘ :3‘ 53B934‘ :;4‘ 2 ‘ =7;55 3&&3D8‘ 92‘ ;4492H‘ 8 ‘ 8C3‘ 49=D 28328‘ &‘ 8:3‘ 3 53 ‘ C@8‘ 8:39<‘ 8 8;5‘ 494‘ 598853‘ 7 <3‘ 8:;2‘ ;6‘ & <‘ 8:3‘ 7;92832;2D3‘ &‘ 8:3‘ 92B;43<=,‘ 3;2?:953‘ 8:3‘ 8< =‘ C3:;B34‘ ?98:‘ 8:3‘ @=@;5 59D32D3‘ &‘ ;‘ <32D:‘ ;<76‘ 92‘ ;‘ D 2J@3<34‘ D 97 8<6‘ ;24‘ <3 3;83456‘ < B >34‘ =;2H@92;<6‘ C<;?5=‘ ?98:‘ 8:3‘ 3;=;28<6,\‘ 9598;<6‘ 3G3D@89 2=‘ &‘ 3<= 2=‘ ?:‘ :;4‘ <3=9=834‘ <3J@9=989 2=‘ C6‘ & <D3‘ C3H;2‘ ;=‘ 3;<56‘ ;=‘ -;2@;<6‘ M#M,‘ 8:92H‘ ?;=‘ ?;2892H‘ 8 ‘ <3 ;<3‘ ;2‘ 92=@<<3D89 2‘ C@8‘ 53;43<=K &‘ 8:39<‘ ; 3;<;2D3‘ 8:3<3‘ ?;=‘ 2 ‘ =9H2S‘ 8:3‘ 7 =8‘ = 9<9834‘ 737C3<=‘ &‘ 8:3‘ @ 3<D5;==3=‘ :;4‘ H 23‘ &&‘ ?98:‘ 8:3‘ 3H328,‘ : =3‘ ?: ‘ :;4‘ <37;9234‘ ?3<3‘ 8:3‘ 79=3<;C53‘ C@<3;@D<;8=‘ ?:9D:‘ 43= 89D‘ H B3<2V 7328=‘ ;5?;6=‘ C<334.,‘ :36‘ ?3<3‘ <3;46‘ 8 ‘ =3<B3‘ 8:3‘ =8<;2H3<‘ 9&‘ 8:36‘ D @54‘ >33 ‘ 8:39<‘ =8=‘ ;24‘ 5;D3=,‘ ‘ 49=D<3498;C53‘ < <89 2‘ &‘ 8:3‘ 54‘ =8;83‘ =3<B;28=‘ ;DJ@93=D34‘ 92‘ 8:3‘ 23?‘ H B3<2 7328,‘ :3‘ ;8<9;<D:‘ &‘ 9=C 2‘ 9==@34‘ ;‘ &@5= 73‘ ;44<3==‘ 92‘ <;9=3‘ &‘ ; 53 2,‘ :3‘ 737C3<=‘ &‘ 8:3‘ < B9=9 2;5‘ H B3<2 7328‘ ?:9D:‘ 8:3‘ 3H328‘ :;4‘ 2 792;834‘ 2‘ :9=‘ 43 ;<8@<3‘ 7 =856‘ =@C 798834‘ 8 ‘ -@2 8,‘ 593<3‘ ?;=‘ 598853‘ 49&&9D@586‘ & @24‘ 92‘ D 553D892H‘ ;‘ 43 @8;89 2‘ 97 =92H‘ C6‘ 98=‘ 2@7C3<=‘ ;24‘ C6‘ 8:3‘ 2;73=‘ &‘ = 73‘ &‘ 98=‘ 3<= 2235‘ ?:9D:‘ 8<;B35534‘ 8 ‘ ;6 223‘ 8 ‘ D 7 597328‘ 2; ;<83‘ ;24‘ <3J@3=8‘ :97‘ 8 ‘ H<;28‘ = 73‘ 43&92983‘ & <7‘ &‘ H B3<2 7328‘ 8 ‘ <8@H;5,‘ :3‘ 7 3< <8<3;834‘ 8:37‘ 92‘ ;‘ B3<6‘ &&:;24‘ ?;6‘ ;=>34‘ 8:37‘ 9&‘ 8:36‘ ? @54‘ 59>3‘ 8 ‘ C3‘ ;223G34‘ 8 ‘ ;92‘ ;24‘ 2‘ 8:39<‘ 9249H2;28‘ <3 @49;V 89 2‘ &‘ 8:;8‘ < =;5‘ =328‘ 8:37‘ &&‘ ?98:‘ ;‘ &3?‘ 5;898@43=‘ 8 ‘ 8:3‘ 3&&3D8‘ 8:;8‘ 8:3‘ 5 8‘ &‘ ;‘ 2;89 2‘ 43 324=‘ @ 2‘ 98=35&‘ ;24‘ 8:;8‘ :9=‘ 363‘ ?;=‘ @ 2‘ 8:37,‘ @8‘ 8:9=‘ 9283<B93?‘ 256‘ 8 >‘ 5;D3‘ 92‘ <95‘ M#M‘ ?:32‘ 3B328=‘ 92‘ ;92‘ ?3<3‘ ;==@7 92H‘ ;‘ B3<6‘ 49&&3<328‘ ;= 3D8‘ &< 7‘ 8:;8‘ ?:9D:‘ 8:36‘ 49= 5;634‘ ;8‘ 8:3‘ 7 7328‘ &‘ -@2 8A=‘ &9<=8‘ =39R@<3‘ &‘ 9=C 2,

3 / T &&;9< &8:3 =D@<9;5A ;4434 = 73 D 7 59D;89 2=8 ,893 =98@;89 2 &;&&;9<=92 ;92 &< 7 ; 53 2A= 928 &B93?, @8 8:3<3?;=2 8:92H92 98 8 7 ;>3 :97 ;583<8:3 5;2=?:9D: :3?;= ;8 8:9=7 7328D;<<692H @8K 9&8:3 @<C 2=?3<38 C3 3B9D834 &< 7 ;92 98 7 ;43 8:3 8;=>= 73?:;8 3;=93<8 &924,8:;8 8:3 :39< 8 8:3 8:< 23?;=2 ?92 433 49=H<;D3, 8?@54 C3 ==9C53 8 @<H3 8:;8 C6:9= ;<<9D94;5 5 8=:3:;4 &<&39834 ;26<9H:8=8 8:3 >92H4 7 ?:9D: :3 :;4, :98:3<8 ==3==34, 2 ,43;592H ?98: 8:3 5989D= &;92 :3 79H:8 & <8:3 &@8@<3 C3 49=<3H;<434 ;24 8:3<3 ?@54 C3 2 23 8 8;>3 928 D 2=943<;89 2=;B3 8:3 092H ;24 U@332 ;24 % 4 6, 55 8:<33 ?3<3 ;=8:3 7 3< <>23? < & @2456 @2 @5;<K 9&;268:92H:;4 C332 233434 8 7 ;>3 8:3 2;89 2 7 <3 49=D 2832834 98 ?;=8:3 5;83 =D;24;5 @= 3B328= ;8 8:3 =D@<9;5, 8:92H D @54 C3 7 <3 D 2B329328 8:;2 8:;8 8:3 &;B @<983 ;24 :9= = B3<39H2= =: @54 =92> 638 &@<8:3< 928 *8:3 ;C6== &@2 @V 5;<986

; 53 2 8:3<3& <3?328 =83;4956 2?98: :9= 5;2= & < @=:92H 7 9A3 ;24 7 <3 <32D:8< =928 ;92 ?98: 8:3 CX3D8 &DD@ 6V 92H ;55 8:3 7 ;92 =8<;83H9D;5 928= 92 8:3 >92H4 7, :3 256 4 @C8&995 928 92 :9= =D:373= 9= ?:38:3< :3 @5897 ;8356 < =34 8 =39R3 2 8:3 3<= 2= &8:3 < 6;5&;7956 < ?:38:3< :3 92832434 C6 ; =3<93= &8:<3;83292H ;D8= 8 =D;<3 8:37 &&8 3G9D ;= :3 :;4 ;5<3;46 =D;<34 8:3 <92D3 & <8@H;5 &&8 9 43 -;239< , 8 9= 2 8:3?: 53 < C;C53 8:;8 :3 53;234 8 8:3 5;883< 5;2, B3<6 ?33> 8:3 ;8898@43 &8:3 <32D:;<793= C3D;73 7 <3 ;HH<3==9B3 ;24 8:35;2H@;H3 &8:39< 7 ;=83< 7 <3 :;@H:86 ;<94 =929=83< :38 23

8 9= 97 ==9C53 8 4 @C8 8:;8 ; 53 2A= =D:373 ?;= ;5<3;46 92 < H<3== ;= 3;<56 ;= D8CC3<, 2 B, I :3 =328 <43<= & < 8:3 =3D<38 ;<792H ;24 < B9=9 292H &;55 8:3 &< 2893< & <8<3==3= & <;2D3 3, & & $ I ILIP, 2 B, $L :3 49<3D834 :9= D:;7C3<5;92 3 @7 2 8 = 6 @8 8:3 D 24989 2 &;7 35@2;;24 8:3 8:3< ;29=:C <43< =8< 2H: 54= ;24 8 49=D B3< 8:3

92' ? : 9D : ' : 3' : ; 4' & <C94432' 8 : 3' D @<8' &' ;92' 8 ' ; 55 ?' ; 26' 7 3289 2' &' : 9 7 =35&' <' : 9=' ; 7 C ; == ; 4 <' 8 ' ; 3 ; <' 4@<92H' 8 : 3' 89A9 ; 5' &' <92D3' 3<492 ; 24' ; 24' : 9=' &355 ?' D 2= 9<; 8 <3' : ; 4' C332' 7 32 ; D92H' 92' 8 : 3' : 9H : 3=8' 43H<33,' &83<' 8 : 3' DD@ ; 89 2' &' <8@H ; 5' 2 ' &@<8 : 3<' ; 55@=9 2' : ; 4' C332' 7 ; 43' 8 ' 8 : 3' < X3D8' & <' < D5 ; 9 7 92H' % 4 6' <92D3' &' 8 : 3' 5H ; <B3=,' 9=' 2 ; 7 3' ? ; =' 23B3<' 7 3289 234' 398 : 3<' 8 ' 8 : 3' <8@H@3=3' <' 8 ' 8 : 3' &&9D3<=' &' - @ 2 8,' : 3' & ; B @<983' = 2' =; ?' 8 : ; 8' : 3' : ; 4' C332' 4@ 34 ' C@8' ? ; =' 8 ' 83<<9&934' 8 ' D 7 5 ; 92,

@8' 98' ? ; =' 8 : 3' D 2=8 ; 28' 92&5@G' 928 ' ;92' &' <32D : ' 8< =' ? : 9D : ' D 28<9C@834' 92' 8 : 3' 7 =8' =3<9 @=' ? ; 6' 8 ' &<9H : 832' 8 : 3' ; 29=: ' D 9 7 ,)** - @2 8, : 354' 3283<34' 9=C 2' 2' B,' I # ' ; 24' 8 : 3' 23? =' 8 : ; 8' : 3' : ; 4' 7 ; =83<34' 8 : 3' 5 ; D3' ? 98 : @8' &9<92H' ;' = : 8' : ; 4' <3 ; D : 34' 8 : 3' 7 3< <' 3 ; <56'92' 3D3 7 C3<,' @8' 5 2H' C3& <3 ' 2' 8 : 3' 8 ? 3286.=3D 24' &' B3 7 C3<' 8 : 3' <32D : ' <3=3<B3=' : 98 : 3<8 ' >2 ? 2' ; =' 8 : 3' T 3D 24' < =' &' C=3<B ; 89 2' &' 8 : 3' %9< 243 A' ? : 9D : ' : ; 4' C332' D 553D834' ; 8' ; 6 223' 92' B3 7 C3<' D< ==34' 8 : 3' ; 29=: ' &< 2893<,' : 36' D 2V =9=834' &' $ ### ' 7 32 23 ; <56' ; 55' <3D32856' 53B934' D 2=D<9 8= @243<' %323<; 5' @ 28,' : 3' 8<3 ; 86' &' 28 ; 923C53 ; @' : ; 4' D 28 ; 9234' ; ' D5 ; @=3' < B9492H' 8 : ; 8' 9&' 8 : 3' 2H59=: ' 8<934' 8 ' 43&324' <8@H ; 5' C6' 5 ; 2492H' 8< =' ; 53 2' 7 9H : 8' =324' L# ### ' 7 32' 8 ' ; 94' - @2 8' ' * * ' ' ' ' 9 * ' ' - ! ' 2=83 ; 4' &' ? ; 9892H' 8 ' : 3 ; <' : ?' 8 : 3' &9<=8' D < =' : ; 4' &; <34' <' ; <9=92H' : 9=' ; 556' &' : 9=' 9283289 2' 8 ' 49= ; 8D : ' @ 28A=' D < =' ; D< ==' 8 : 3' &< 2893<' 8 : 3' 7 3< <' 7 3<356' <43<34' 98' 8 ' D< ==' 8 : 3' 94 ; == ; ' ? 98 : @8' =32492H' ; 26' 92& < 7 ; 89 2' 8 ' ; 4<94,' ;' : 3' & ; D8' ? ; =' 8 : ; 8' ? : 38 : 3<' 8 : 3' <3V 59 7 92 ; <6' D 24989 2' =8 ; 834' 92' 8 : 3' 8<3 ; 86' ; 2' 2H59=: ' 43=D32&' 2' <8@H ; 5' 494' <' 494' 2 8' 8 ; >3' 5 ; D3' 2 ; ; <83' ? ; =' 4383< 7 9234' 8 ' D ; <96' @8' : 9=' 43=9H2,' ' 7 28 : ' 5 ; 83<' 8 : 3' ; 29 ; <4=' : 3 ; <4' 8 ' 8 : 39<' H< ? 92H' ; 5 ; < 7 ' 8 : ; 8' 638' ;' 8 : 9<4' ; <7 6' D < =' : ; 4' D 7 3' ; D< ==' 8 : 3' C <43<K' 8 : 9=' ? ; =' 8 : 3' :' < =' &' C=3<B ; 89 2' &' 8 : 3' D3 ; 2' ; =8 A' ? : 9D : ' : ; 4' C332' : ; =8956' <H ; 29R34' @243<' ; <=: ; 5' 2D36' ; 8' <V 43 ; @G' ; 24' @= : 34' 2' 8 ' ; 6 223' ? : 32' @ 28A=' 8< =' 7 B34' & <? ; <4,' 8' ? ; =' I # ### ' =8< 2H' C@8' 7 ; 9256' D 7 =34' &' D 2=D<9 8' C ; 88 ; 59 2=' & 8 : 3' 53B6' &' M#M' ? : 9D : ' : ; 4' C332' <; 9=34' C6' ; 289D9V ; 89 2' 92' 8 : 3' <3B9 @=' = <92H' ? : 953' 8 : 3' @==9 ; 2' ? ; <' ? ; =' =8&55' 92' < H<3==,' 2' 8 : 3' 39H : 8 : ' &' - ; 2@ ; <6' 8 : 9=' ; <7 6' C3H ; 2' 8 ' ; =' 8 : 3' 6<3233=' DD@ 692H' ; 55' 8 : 3' D : 93&' 8 ? 2=' &' 9=D ; 6' ; 24' ; B ; <<3' ? : 953' @ 28A=' 49B9=9 2=' <3==34' 2' ; 24' D ; 28 234' 8 : 37 =35B3=' 92' @<H =

3G ; D8' 49=8<9C@89 2' &' 8 : 3' ; 29=: ' ; <76' 0 I I LP,' @D : ' 7 B3=' D @54' : ; B3' C@8' 23' 73 ; 292H,

/ ;55;4 594 ; ;24 8:3 8:3< D:93& D9893= & 54 ;=8953, :36 7 ;43 2 &@9*8:3< ;4B;2D3 8 ?;<4= <8@H;5 ?:3<3 -@2 8 D53;<56 494 2 8 <3J@9<3 8:39< ;94,

:3 ;29=: H B3<2 7 328 ?;= 83<< <.=8<9D>32 ;8 8:3 @23G 3D834 ; 3;<;2D3 & 7 <3 8:;2 N# ### <32D: 8< = 2 8:3 < ;4 8 ;4<94, & ;268:92H 7 <3 ?;= <3J@9<34 8 D;@=3 =@= 9D9 2 98 ;?;= 8:3 23?= 8:;8 =8955 7 <3 D < = & C=3<B;89 2 ?3<3 C392H & <7 34 ;8 <43;@G ;24 9893<=, :;8 53H989 7 ;83 <3;= 2 D @54 8:3<3 ==9C56 C3 & < 8:3 49<3D89 2 & =@D: 7 ;==3= & 8< = 2 <8:3<2 ;92 @8 ;26 8: @H:8 &<3=9=8;2D3 ?;= &;< &< 7 ;8:3 7 924 &% 4 6 ;24 8:3 092H, :39< &9<=8 5;2 ?;=8 < &289;83 ; 53 2 C6 7 ;>92H 8:3 =;73 <3J@3=8 ?:9D: ;4 C< @H:8 8:3 <92D3 & 8:3 =8@<9;= 928 =@D: 8< @C53 92 D8 C3< 8:;8 8:3 :;24 &;<92D3== &8:3: @=3 & 2; ;<83 7 9H:8 C3 H<;2834 8 8:3 :39< & 8:3 ;29=: 8:< 23, :3 7 3< < ?;= 7 ;>92H ;2 =8328;89 @= 8 @< 92 8;56 ?:953 :9= & <D3= ?3<3 B3<<@2292H 8:3 < B92D3= & :9=;556 9& 8:3 DD@ ;89 2 & ;=8953 ;24 9=D;6 ?3<3 2 ;&&;9< & :9=, 9= 7 =8 97 <8;28 ;D8 92 B37 C3< ?;= 8 3B9D8 X& 7 5 <32D3 8:3 <@592H = B3<39H2 8:3 092H & 8<@<9; ;24 8:3 3H328 :9= 7 8:3< 8:@= ;223G92H 8:3 5;=8 =@<B9B92H @<C 2 =8;83 =;B3 ;92 8 8:3, <32D: D< ?2, 3 ?< 83 5983 C@8 73;292H53== 53883<= 8 ;4<94 7 ;>92H 2 ;55@=9 2 8 8:3 C 2 ;=>34 C6 :;<53= /, :3 &;D8 ?;= 8:;8 ; 53 2 D @54 2 ? 89K3;8 3<492;24 ;= 4;7 ;H34 H 4= S :3 ?;= C6 :9= &;8:39*= ?2 ;B ?;5 2 7 <3 8:;2 ; < ;<4 234 ;<<9D943 ;24 98 =@9834 8:3 59D6 &8:3 7 3< < 8 <3H;<4 :97 ; ; D 2B9D834 D<97 92;5 ?: :;4 5;634 ;?;6 9= <9H:8= &=@DD3==9 2, & ; 53 2 B9=9834 :9= C< 8:3< @D932 ;8 ;28@;98 ?;= 2 8 0;= ?;=8: @H:8 ;8 8:3 897 3P ?98: ;26 <3;5 92832 89 2 & 3<=@;492H :97 8 H9B3 :9= 4;@H:83< 8 8:3 D<;B32 =@98 < &&3<34 :3<(C@8 92 <43< 8 837 8 :3< &;8:3< 8 ;DD3 8 8:3 D< (B2 & <8@H;5 3B32 3<: ; =8:;8 & ;92, @8 @D932 ?: ;5?;6= <3&@=34 8 &;55 92 ?98: ; 53 2 = &;7956 59D6 =: ?34 2 H<;898@43 & <8:3 &&3< &;8: <26 8:< 23 92 8:3 C3<9;2 3292=@5; ;24 2 8 ?98: @8 <3;= 2 & < 23 &8:3 438;95= &8:3 C;<H;92 ?;= 8 C3 8:;8:3 =: @54 49B <D3 ;? 9&3 8 ?: 7 :3 ?;= & 2456 ;88;D:34,

8 ?;= 256 ;&83<<38@<292H& 7 8;56 92 -;2@;<6 8:;8 8:3 7 3< < 439H234 8 ;2=?3<8:3 092H & ;92= 53883< 2 ?8? 7 28:= 54

* 83 2 8:9= 928 ;5536<;24= 1 # $ 9, III ;24 , & * &7$ I L#$0 ; 53 2 8 - =3 : 2; ;<83 3D, M# P,

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:32 ; D 7 ;26 & H<32;493<= ? : :;4 C332 :94432 92 ; 239H:V C @<92H : @=3 =@443256 <;2 92 ;8 8:3 H;83 & 55 ?34 C6 ; ? : 53 C;88;59 2 ? :9D: :;4 C332 ;8 4<955 ; &3? :@24<34 6;<4= ;?;6, :3 ;29=: H;<<9= 2 8;>32 @883<56 C6 =@< <9=3 ;24 @2;<7 34 B3<3 :@=8534 @8 &8:39< J@;<83<= ;24 8@<234 928 8:3 8 ?2 , :9H:.= 9<9834 <92D3 ? @54 :;B3 43D5;<34 ?;< ;8 2D3 ?:;8V 3B3<8:3 44=;H;92=8 :97 2 <3D39B92H =@D:;2 92=@5892H C5 ?, @8 8:9=?;=2 8 8 C3 3G 3D834 &< 7 3<= 2=59>3 % 4 6;24 :;<53= /, DD <492H56 8:36 3G =34 8:37=35B3= 8 8:3 D 2892@;89 2 &8:3=3 49 @= 8<9D>=, 2 3C<@;<6 $" %323<;5 3DD:9 8:3 &&9D3< D 7V 7;2492H 8:3 <32D:8< = ?:9D:?3<3 ;==92H 8:< @H: ;<D35 2; <43<34 ; <3B93? &:9= 49B9=9 2 C3& <3 ;= :3 =;94 98=; < ;D:92H 43 ;<8@<3 & < 8:3 = @8:, &83< = 73 .3B 5@89 2= :3 7 ;<D:34 98 8:< @H:8:3 D986 ;24 ;=8 8:3 H;83 &8:3 D98;4355 ?:32 8:9= 928 ?;= <3;D:34 :3 =@443256 C;43 8:3 53;492H D 7 ;26 ?:335 8 8:3 153&8 ;24 3283< 8:3 & <8<3==, 3& <3 8:3 ;29;<4= @243<=8 4 B:;8 B;= :; 3292H =3B3<;5 8: @=;24 &8:39< ;5593= =3<3 92=943 8:3 5;D3 ;24 C6 8:3 3B3292H 8:3 <9H:8&@5 ?23<= ?: D;<<934 8:39< =989 2 2 &@<8:3< 8:;2 2 9=6 < 83=8;89 2= :;4 C332 D <9D834, &3? 4;6= 5;83< 8:3 8? <37;9292H &<. 2893< & <8<3==3= & ;92 ;2 3C;=89;2 ;8 8:3 85;289D 324 &8:3 6<3233= ;24 9H@3<;= ;8 8:3 H<3;8 ;=)*;5 2H 8:3 34983<<;23;2 D ;=8 =@&&3<34 8:3 =;73 &;83K 8:3 & <7 3< 5;D3 ?;= =@<<3243<34 C6 98= H B3<2 < ?:32 8:<3;83234 B98:)*82 ;D8@;5 ;==;@58 ?:9D: <43<= &< 7 ;4<94 & <C;43 :97 8 <3=9=8 W ;<D:], 9H@3<;= 2 8:3 8:3< :;24 B;= =39R34 C6 ; ! =9795;< 8 8:;8 ;8 ;7 35@2;S $## <32D:= 5493<= :;B92H C8;9234 328<;2D3 ?98:92 8:3 ?;55= 2 ; &@8953 <383G5X6 =@443256 =39R34 8:3 H;83= ;24 ;4 98834 ; ? : 53 <3H97328 B:9D: 8@<234 @8 8:3 ;29=: H;<<9= 2 W ;<D: M]+, 8 ? @54 C3 :;<4 9& 2 8 97 ==9C53 8 &924 92 8:3 ?: 53 & 7 43<2 :9=8 <6;26 92D94328; < ;D:92H 92 D629D;53&&< 283<6;24 73;2 D@2292H 8 8:3=3 &9<=8 =8953 ;D8= &8:3 9%32D: 2 8:3 , & * &$ I NMM ?955 C3 &974 8:3 <43<=8 %323<;5 A 22;H2;D 8 H38 ==3==9 2 &8:3 D98;435 C6 732;D3=9&:3 D;2 C@8 9&:3 D;22 8 C6 8:3 ;D8@;5 :=3 &&<D3, T A95 ;<<9B;98 J@3 53 D 77;24;28.H323<;543 ;B;<<3=3 <3&@=;5;<324<3 5;D98;43553 B @=37 5 63<93R 53=8< @ 3=4@ ;<3D:;5 2D36 @< A6 &<D3<,A 8 ?955 :;<456 C3 C3593B34 8:;8 ;93<92 :9=C5924 <3B3<32D3 &< ; 53 2 798= 8 H9B3 ;26 438;95= D 2D377H 8:3 =39R@<3 &8:3 &<8<3==3 73<356 =;692H 8:;8:36 ?3<3 T 8;>32 C6 B;<9 @= ;<89&9D3= A 09, 9IP, 8 9= 8:3 ;<89V D@5;<= ?:9D: ;<3 =D;24;5 @= ;= ?355 ;= 8:3 73<3 &;D8,

83<<98 <6' &' 8:39<' ;5593=,' :3' 238' <3=@58' ?;=' 8 '53;B3'8:3'8? 'D:93&' & <8<3==3=' 2' 3;D:' &' 8:3' 7;92' 328<93=' 928 ' ;92' &< 7' <;2D3' D 7 538356'92'8:3' ?3<' &'8:3' 7 3< <,

% 4 6';24' :9=' 37 5 63<=' ?3<3' 4<9B32' 928 ' ?954' ;5;<7' C6'8:3=3' ;D8=' &' 32' : =895986,' :3' &;B @<983 ' 92' :9=' 737 9<=' (' 8355=' @=' 8:;8' :3' 8: @H:8'& <' ;' 7 7328' &'<3= 2492H' C6';'43D5;<;89 2' &' ?;9 ' C@8'8:;8'8:3' 54' >92H' <3 5934' 8:;8' ; 53 2' D @54' 2 8' C3' 92832492H' 8<3;D:3<6' C3D;@=3' :3' :;4' X@=8' =328' :97' 8?35B3' &923' D ;D:.: <=3=' ;24' =3B3<;5' 5983' 53883<=,' 2' &;D3' &' :9=' 7;=83<A=' <35@D8;2D3' :3' 83 =' <9=' 8:;8' :3' 837 <9R34' & <' = 73' 4;6=' 7 <3,' :3'=8 <6'9=' :9H:56'97 < C;C53K :;<53=' :;4'2 ' ?955' =;B3'% 4 6A=' ;24' ? @54' :;B3' 4 23' ?:;83B3<' :3' ?;=' 8 54,' 8' 9=' 7@D:' 7 <3' 59>356'8:;8' 8:3'<35@D8;2D3'8 ' 8;>3,;'C 54'<3= 5B3' ?;=' 8:3'&;B @<983A=' ?2,' :32'8:3' <32D:' 8< =' =8955' D 2892@34'8 ' 4<;?'23;<3<8 ' ;4<94 '% 4 6'D @54' 256'C38:92>' :97=35&' &';' 5;2'& <';C=D 24V 92H,' 3' < =34'8 ' 8:3' 092H' ;24' U@332' 8:;8' 8:36'=: @54' 53;B3' ;4<94';24' 8;>3'<3&@H3'92' 3B9553 '92' <43<'8 ' 5;D3'8:37=35B3=';=' &;<';=' ==9C53'&< 7' 8:3' <32D:';<793=,' 3:924'8:9=' 7 B3' ?;=' ;' =D:373' & <';' 7@D:'5 2H3<' B 6;H3,' 8' =337=' 8:;8' 3' < =34' 8:;8' 8:3'D @<8'=: @54'& 55 ?'8:3'3G;7 53' &'8:3' 3H328' &' <8@H;5' ;24' &56' 8 ' 73<9D;,' 8' 3G9D ' <' @32 =' 6<3=' 8:36'? @54';8' 53;=8' C3' =;&3' &< 7' 2; ;<83,' ' < 83D8' 8:3' &9<=8' =8;H3' &'8:3' &59H:8' 8:3' 8< =' 92' <8@H;5' ?3<3' 49<3D834' 8 ' =59 ' ;?;6' &< 7' -@2 8' ;24' 7;==' 92' =8<37;4@<;, :3' H;<<9= 2' &' ;4<94' ?;=' 4<;?2' 8 ' <;2X@3R' 8:3' ;5;D3' ?:3<3' 8:3' D @<8' 5;6'92, 3C<@;<6' ;24' ;<D:' ';24' ?;=' 8 ' ;D8' ;=' 98=' 3=D <8' 8 ' 3B9553,' 8' 9=' D3<8;92' 8:;8' 2 8:92H' ? @54' :;B3' =@9834' ; 53 2A=' 5;2=' C3883<' 8:;2' 8:;8' :;<53=' /)=: @54' ;C=D 24' ;24'53;B3' :9=' 8:< 23'43<359D8K' 98' ?)@54' :;B3' H9B32' 8:3' 7;G97@7' &' ;4B;28;H3' ?98:' 8:3' 79297@7' & 49@7,' 8' 9=' ==9C53'8:;8' ;8'8:3' 7 3< <'?;=' ? <>92H' <3D9=356'?98:' 8:3' CX3D8' &' &<9H:83292H' % 4 6'928 '&59H:8,' &'= ' :9=' =D:373' ?;=' & 9534 ' C3D;@=3' :3' & <H 8' 8:;8' :3' :;4' 8 ' 43;5 2 8' 256' ?98:' 8:3' D 2837 89C53'D @<8'C@8'?98:'8:3'=@= 9D9 @=' ;24'<3B3@H3&895' ;29=:' 2;89 2,' 2' ;<D:'8:3' 3 53'9283<B3234' ;24'8:39<' @8C<3;>' @8' J@983' ;' 49&&3<328' &;D3' @ 2' ;&&;9<=,

3;2?:953'8:3' 7 3< <';=' 5;@2D:92H' ;' 23?' &9H@<3' @ 2' 8:3' =8;H3,' 2' 3C<@;<6' $N' :9=' C< 8:3<.92.5;?' - ;D:97' @<;8' 8:3' 23?' %<;24. @>3' &' 3<H' ; 3;<34' ;8' ;6 223' ?98:' 8:3' 89853' &' T 93@832;28' &'8:3' 7 3< <A,;24' ;' D 7 79==9 2'8 ' 8;>3' D 7 7;24'

' # ' ' $9,' $$,' &,' <83D:3'9,'$,

&' ;55 8:3 <32D:' & <D3=' 92' ;92,' 2' ;<D:' #' :3' D< ==34' 8:3' 94;== ;' ;24' ;==@734' ==3==9 2' &':9=' =8,' @<;8=' D:;<;D83<'9=' ?355 >2 ?2'K' 98' ?;=' 2 8'B3<6'D 7 59D;834,' 3' ?;=';' :3;4=8< 2H' @2=D<@ @5 @=' = 5493<' ?98:';' H329@=' & <' :3;492H' ;' D;B;5<6'D:;<H3' 2';'5;<H3'=D;53';24';2'@2C @2434';7C989 2,' 3'?;=;8' <3=328' 7 3498;892H' 2' 859< 23=';24' >92H4 7=K 3<H'=337 34';'=7;55 8:92H' 8' 8:9=' = 2' &';'%;=D 2'922>33 3<';24'3B3<'=9 D3':9=' C< 8:3<=.92.' 5;?' - =3 :' @9='';24'-3< 73' 2; ;<83';:4'C3D 73' >92H=*' :3' ?;=4383<7 9234'8 'D597C' @ ' 8 ' C3' 8:39<' 3J@;5,' 8' :;=' &<3J@32856' C332';==3<834'8:;8' 97;8'?;=';8'8:9=' 7 7328'4<3;792H' &' 8:3' 9=:' D< ?2K :3' ?;=' D3<8;9256' ;?;<3' 8:;8' 8:3' 7 3<'<';=' 5 8892H';H;92=8'8:3' @<C 2=';24'8:3'7 9598;<6'7 B37328=' ?:9D:' :3' :;4'C332'4&<3D834'8 'D;<<6' @8' ?3<3' =@&&9D9328' 92' 8:37=35B ' 8 ' 9249D;83' 7 <3' <' 53==' :9=' C< 8:3<.92.5;?A=' 9283289 2=,' 38' 2' 8:3' ?: 53' 98' 9=' < C;C53'8:;8';3' :;42 8'<3D39B34'7 <3'8:;2';:;5&V D 2&9432D3=' &< 7' :9=';@H@=8'<35;89B3,' 9=' 49= ;8D:3=';<3' &@55' &' 7@<7@<=' 8:;8':3' ?;=' C392H' >3 8' 92' 8:3'4;<>';24'8:;8':3'D @54' 2 8';D8'?98:'&9955'D 2&9432D3'&' <'?;28' &'3G 59D98'49<3D89 2=,' ; 53 2' :;4'D3<8;9256' < 79=34';97' < 7 89 2'9&'8:3' ;29=:';&&;9<'D;73' 8 ';'=@DD3==&995'324'K' C@8'98'9=' < C;C53'8:;8' @<;8'@243<=8 4'8:;8' :3'?;=' 2 8'8 'C3'<3?;<434'?98:'8:3'D< ?2' &' :;<53=' /,' 3<:; =' <8@H;5' <' 55;24' <' ; 53='09&' 23' &'8:3' 7 3< <A=' C< 8:3<=' =:' @54' ;==' 2'8 ' ;4<94P'?;=' = >32' &';=' 9=' <3?;<4,' 3<8;9256' 8:3<3'?;=' 32 @H:';8'=8;>3'8 '2 ;>3'97'3;H3<'8 'D;<<6' @8'?:;83B3<' 2; ;G83' <43<34,' 2' :9=' D:33<&@5'=35&.D 2&9432D3' :3' 97;H9234' :97=35&' J@983'D; ;C53' &' 5; 2H'8:3' ;<8' &';' ;D:9;B3559';24' &' 34H92H'8:3' 54' >92H' @8' &'8:3'D @28<6'C6'8:<3;8=';24':928=,' @8' 9&'H<; 3.=: 8'?;=' <3J@9<34' :3'?;=' 3J@;556'<3;46'8 ';47929=83<';2' @2= ;<92H'4 =3,' 98:';' >92H4 7' 92' B93?:3'D @54' C3' @883<56' @2=D<@ @5 @=),

:' ;<D:' I' @<;8';<<9B34';8' @<H =' ;24' 9==@34';' =8<;2H3' < D5;7;89 2'C9449 2H':9=';<76'T'8<3;8'8:3'3=897;C53' ;29=:'2;89 2' ;=' &<9324='& <'8:3' 7 3< <' = @H:8' 256'8:3'H 4';24':; 923==' &' ;92,A' :3'D@<9 @=' :<;=3'D @54' 256' =@HH3=8'8:;8'@253==' :3'H;B3' 8:9=' ?;<292H':9=' 8< =' ? @54':;B3' 8<3;834'8:39<';5593=';=3237 93=,

)' :;8' @<;8'494'2 8'4<3;7' &'8:3' ;29=:'D< ?2'9=' '8:92>'&;9<56'?355' 437 2=8<;834'C6':9=' 43=D324;28,' @28' @<;8'92':9=' @=3&@5' $! # # ' ' o # & ' 'o & 6 'O M" P,' @8'8:;8;&83<' 2D3'<3;492H'8:3'49= ;8D:3=;' , &' * & $' I NMM' ;24' I M"':3'&;9534'8 '=33'8:;8':9=' C< 8:3<62.5;?A=' 9283289 2'?;=8 '=39R3' ;92'9=97 ==9C53,

HF' ' $ $ ' ' " ' $(' E# &94&3 ;@
:3' =D;24;5 @=' 955;H3' D 7 7 98834' C6' 7 ;26' <3H97328=' 4@<92H'
3C<@;<6' ;24' ;<D:' J@983'X@=89&934'8:3'=@= 9D9 2,
:3'; X < ;D:' &':5@<;8'=D;<34' 4 6'928'97 7349;83';D89 2' ;55'
8:3' 7 <3' C3D;@=3';' 23?' &" ! ' 4 ' 7 <3'8:;2' I# ###' =8< 2H'
@243<' ;<=:;5' 3==93<3='?;=';5<3;46' D 7 732D92H'8' D< ==' 8:3'
6<3233='C<92H92H'@ '8:3'8 8;5j' &' <32D:'8< =' 92' 8:3' 3292=@5;'
XS' 7 <3'8:;2' ## ###' 732,' 3' <43<34'8:3'43 ;<8@<3' &'8:3'
092H';24':9='3=D <8'8:3' ;4<94'H;<<9= 2'& <' 3B9553' 2' ;<D:' M,'
:9='C< @H:8'7;883<='8 ';':3;4K'98'?;='<3H;<434';='8:3'D 7 732D3V
7328' &'8:3' < X3D834'&59H:8'8 ' 73<9D;' &'?:9D:'<@7 7F'?3<3'
;5<3;46'&5 ;892H'< @24'8:3'D 7<8';24'D; 98;5,' '43= 89D'H B3<2V
7328'?:9D:'23B3<8;>3='8:3' 3 53'928'98='D 2&9432D3'7@=8';5?;6='
3G 3D8'8 ' :;B3'98=';D89 2='9283< <3834',92'8:3' 7 =8' @2&;B @<;C53'
59H:8,' GD3 8'% 4 6A=' 3<= 2;5';4:3<328='8:3<3'?;='2 8';' = @5'
92' ;4<94'?:'494'2 8'C3593B3'8:;8'8:3'&;B @<983'?;=';D892H'92'
D 55@=9 2'?98:' ; 53 2';24'4359C3<;8356'C38<;692H':9='=B3<39H2'
;24':9='D @2896,' 8'?;='C6':9='D 2=328'8:36'8: @H:8'8:;8'8:3'
<32D:' :;4'D< ==34'8:3' 6<3233=':;4'=39R34' ;7 35@2;' ;24'
;<D35 2;' ;24'?3<3'2 ?'7;<D:92H' 2'8:3'D; 98;5,' :36'?3<3'
&;<'&< 7'97;H9292H'8:;8' &';558:3' 3<= 2='92'8:3'H;7 3':3'?;=8:3'
H<3;83=8' 4@ 3';24'8:;8'8:3'<3D328'43B35 7328=' &' ; 53 2)K='
59D6':;4'<34@D34':97'8' 43= ;9<,' 8'?;='D <<3D8' 32 @H:'8'
;88<9C@83'8:3' <3=328'79=3<;C53'=98@;89 2' &'8:3'<3;57'8'% 4 6A='
59D6'C@8' 256'C3D;@=3':9='=3<B95986'8' 2; ;<83':;4'837 834'
8:3'5;883<'8'=33':?'&;<':3'D @54'H ';24'C3D;@=3':9='7;5;47929=V
8<;89 2'::;4'C< @H:8'8:3';<76'='5?'8:;8'98'?;='2'5 2H3<'D; ;C53'
&'43&3249 2H'8:3'&;8:3<5;24,' 32'494'?355 8'C3';2H<6'?98:'8:3';,'
<92D3' &'8:3' 3;D3'C@8'8:36'=:@54':;B3'D@<=34':97';=';'897 94'
92D 7 3832 8'& 5'2 8';=';'4359C3<;83'8<;98 <,' @8'@ =8;<8='?:'
H@943'8:3' 59D6' &';'H<3;8'<3;57'&<* 8:39<' <9B;83' < &98' 7@=8'
2;8@<;556'3G 3D8'8 'C3' 79=<3 <3=32834';24'8:3<3'D;2'C3'2 '4 @C8'
8:;8'8:3' ;29;<4='X@4H34'% 4 6'8 'C3';'?95592H':35 3<92'8:3'<@92'
&':9='7;=83<';24':9='D @28<6,
<;2X@3R' <492;<956';'J@938'598853' 5;D3'?;=2 ?'D< ?434'?98:'
8:3':;2H3<=. 2' &'8:3'D @<8'8:3'H;<<9= 2' & ;4<94';24';'8:< 2H'
&';2G9 @=';24'49=8<;@H:8'92:;C98;28=' &'8:3'D; 98;5K' = 73':;4'
D 73' @8'8 ';B 94'8:3';4B;2D92H' <32D:'= 73'8 '53;<2'8:3'5;83=8'
23?=' &'8:3'092HA=' 9283289 2=' 8:3<=' ?98:'8:3'4359C3<;83'928328 2'
&';88;D>92H'8:3'&;B @<983,' 7 2H'8:3'5;883<'?3<3'8:3'&3?'&<9324='
&'8:3' <92D3' &'8:3' =8@<9;='';24';'7@D:'H<3;83<'2@7C3<'?:

DON MANUEL GODOY

PRINCE OF THE PEACE

AT THE AGE OF 25

22 ;8:9R34' (B98:' :9=' @2:; 6' 5 8' ;24' :;4' 2 8' H;@H34' :9=' 79=3<;C53' 49= =989 2,' 8' 9=' < C;C53' 8:;8' ;=' 8:92H=' =8 4' 98' N@=' <3;556' 8:3' C3=8' 7 B3' 8 ' =324' 8:3' 092H' 8 ' 3(2553' <' 3B32' 8 ' 73<9D;' ';24' 8 ' D 7 7 32D3' 32' <3=9=8;2D3' 8 ' 8:3' <32D:' ?:32' 8:3' < 6;5' 3<3 2' =: @54' C3' 92' =;&386,' @8' 8:3' D< ?4' D @54' =33' 2 8:92H' C@8' 4359C3<;83' 8<3;= 2' 92' 8:3' < =;5K 8:36' ?;9834' 256' & <' 8:3' D 2&9<7;89 2' &' 8:3' 23?=' &' 8593' 43 ;<8@<3' &' 8:3' D @<8' C3& <3' C<3;>92H' @8' 928 ' B9 532D3,' F

2' 8:3' 29H:8' &' 8:3' =3B3283328:' &' ;<D:' % 4 6' ?;=' ;D8@;556' D 7 7 32D92H' 8:3' 3B;D@;89 2' &' G;2X@3R ' C6' =3249 2H' &&' :9=' 7 =8' <3D9 @=' ==3==9 2 ' 8:3' 8 .D353C<;834' 22;' - =3 :;' @4 ' @243<' D B3<' &' 8:3' 4;<>,' :3' ;<86' ?:9D:' B;=' 3=D <892H' :3<' &355' 928 ' 8:3' 794=8' &' ;' >2 8' &' 7 942 9H:8' 5 983<3<=' ?:' ?3<3' ?;8D:92H' 8:3' ;5;D3,' :3<3' ?;=' ;' =D@&&53' ;' 9=8 5' ?;=' &9<34' ;24' ;=' 9&' C6' ;' <3;<<;2H34' 5;2' D< ?4=' @<34' @8' 928 ' 8:3' =8<338=,' :3' D<6' ?328' < @24' 8:;8' % 4 6' ?;=' D;<<692H' &&' 8:3' 092H' ;24' U@332 ' ;24' ;' H323<;5' <@=:' ?;=' 7;43' 8 ' :9=' : @=3,' :3<3' ?3<3' H@;9.4=' C3& <3' 98 ' C@8' 8:36' <3&@=34' 8 ' &9<3' 2' 8:3' 7 C ' &' ?:9D:' 2 ' =7;55' < <V 89 2' B;=' D 7 =34' &' 5493<=' ?:' ';4' C< >32' @8' &' 8:39<' C;<<;D>=' 1h/98:@8 53;)3,' 2' ;' 7 7 328' 8:3' 4 <=' ?3<3' C;883<34' 4 B2' ;24' 8:3' ;==;95;28=' @<34' 928 ' 8:3' 7;2=9 2 ' :@2892H' & <' 8:3' &;B @<983,' :36' D @54' 2 8' &924' :97 ' ;24' 92' 8:39<' 49=; 9287328' =7;=:34' ;55' :9=' ? <>=' &' ;<8 ' ;24' C@<28' :9=' 7;H29&9D328' &@<298@<3,' :32' 8:36' &5 D>34' 8 ' 8:3' ;5;D3 ' 92' ?:9D:' 8:36' =@= 3D834' 8:;8' :3' :;4' 8;>32' <3&@H3 ' D;5592H' & <' :9=' :3;4,' :3' 092H' ;24' U@332 ' 92' 43;456' 83<< <' C3= @H:8' 8:39<' 9 .< =34= 2' 8 ' =;B3' 8:37 ' C6' < 989;892H' 8:3' 7 C ' B:' ? @54' 59=832' 8 ' :9=' B 9D3' 9&' 8 ' 2 ' 8:3<,' :32' D;73' 8:3' : @<' &' 3G)492;24A=' 8<9@ 7 :' =83 92H' @8' 2' 8 ' 8:3' C;5D 26 ' :3';22 @2D34' 8 ' 8:3' D< B4' 8:;8' 8:3' 092H' 9I ' 7@D:' 49= 53;=34' ?98:' 8:3' <92D3' &' 8:3' 3;D3 ' ;24' :;4' 4383<7 9234' 8 ' 49=7 9=' :97 ' &< 7 ' &&9D3,' :3' 8:< 2H' ;8' 2D3' 49= 3<=34' B98:' 5 @4' D:33<=,

3G8' 7 <292H ' 92' &;D8 ' ;' < 6;5' 43D<33' ?;=' 9==@34 ' 43D5;<92H' % 4 6' <3593B34' &' ;55' :9=' =8=' ;24' 4@893=' ;24' C;29=:34' &< 7 ' 8:3' D @<8,' 98: @8' 8:3' &;B @<983' ;8:39<' 35C ?' :;<53=' ;24' :9=' J@332' =337 34' 3<&3D856' :35 53==,' :3' < D5;7;89 2' B;=' <3D39B34' ;8' &9<=8' ?98:' =;89=&;D89 2 ' C@8' 8:3' 3 53' =89 ' :@2H' ;C @8' 8:3' ;5;D3' ;24' >3 8' D;5592H' & <' 8:3' 092H ' ?:' ';4' 8 ' D 73' @8' =3B3<;5' 897 3=' ;24' =;5@83' 8:37,' 8' C3H;2' 8 ' 5 >' 59>3' ;' =D323' &< 7 ' 8:3' C3H92292H' &' 8:3' <32D:' 3B 5@89 2,' :3<3' ?;=' ;5<3;46' 7 @D:' 8;5>' 92' 8:3' D< ?4' &' 8:3' C323&98' 8:;8' ? @54' 32=@3' 8 ' ;92' 9&' 8:3' <92D3' &

L$ ' ' ' ' ' / ' E# &3 ; J

8 : 3 =8@<9 ; = ' ? 8 : ' ? : =3 =@&&3<92H= 3B3<6 23 : ; 4 =6 7 ; 8 : 9R34 ' ?3<3 8 ' C3 328<@=834 ? 98 : ; = 7 3 ; <8 92 8 : 3 "H B3<2 ; 2D3 &' 8 : 3 <3 ; 5 7 , 9= ; <89= ; 2= 3256 = >3 &' 8 : 3 ; C49D ; 89 2 &' 8 : 3 54 >92H ; = ; ' 43=9< ; C53 ==9C95986,

3G8 4 ; 6 8 : 3 <9 892H D 7 7 32D34 ; H ; 92 ' ?92H 8 ' 8 : 3 <3 ; 3 ; <V ; 2D3 &'% 4 6, 3 : ; 4 5 ; 92 D 2D3 ; 534 & < 8 : 9<86 .=9G : @<= C323 ; 8 : ; ' : 3 ; ' &' 7 ; 8= ' 92 ; ' : 9492H . 5 ; D3 D 28<9B34 @243< 8 : 3 < ; &83<= &' : 9= 7 ; 2=9 2 C@8 : @2H3< ; 8 5 ; =8 4< B3 : 9 7 ' @8 ' ; 24 ' ? : 32 : 3 8 : @H : 8 8 : ; 8 8 : 3 D ; =8 ? ; = D53 ; < : 3 =59 34 4 ? 2 ; 24 8<934 8 ' H38 ; ? ; 6, 2 = 983 &' : 9= 7 ; 2853 ; 24 =5 @D : 34 : ; 8 : 3 ? ; = <3D H29R34 ; 5 7 =8 ; 8 2D3 ' ; 24 ? @54 : ; B3 C332 @5534 8 ' 93D3= C6 8 : 3 D< ? 4 9&' : 3 : ; 4 2 8 C332 = ; B34 C6 ; ' 438 ; D : 7 328 &' 8 : 3 < 6 ; 5 H@ ; <4 ' ? : ' D ; <<934 : 9 7 ' && ; ' <9= 23< 8 ' 8 : 3 ; 5 ; D3, : 3 23? = 8 : ; 8 : 3 ? ; = 8< 34 C< @H : 8 8 : @= ; 24 = &' <9 83<= @243< 8 : 3 < 6 ; 5 ?924 ? = ' = : @892H & < : 9= 92=8 ; 28 8<9 ; 5 ; 24 3G3D@89 2, : 3 9 7 C3D953 092H D @54 2 8 C3 D 2B92D34 8 : ; 8 : 3 ? ; = : 9 7 =358 = ; &3 ' ; 24 8 : 3 U@332 ' ? : ' @=@ ; 556 49= 5 ; 634 7 <3 D @< ; H3 ' =33 7 34 ; < ; 56=34 C6 : 3< &3 ; <= & < % 4 6 3B32 7 <3 8 : ; 2 & < : 3<=358, : 9= ? ; = 8 : 3 5@D>6 : @< &' 8 : 3 <92D3 &' 8 : 3 =8@<9 ; =9 @<H34 2 C6 : 9= =3D<38 ; 4B9=3<= ' : 3 =@HH3=834 ; C49D ; 89 2 8 ' : 9= &; 8 : 3< < 7 9=92H 8 : ; 8 : 3 ? @54 49= 3<=3 8 : 3 7 C ; 24 = ; B3 8 : 3 &; B @<983 = 59&3, : 3 =9 6 54 7 ; 2 ; DD3 834 8 : 3 < V =; 5 ?98 : ; 5 ; D<986 ' ; 24 4<3 ?' @ ' ; ' = : <8 4 D@ 7 328 &' 8 ? 35B3 5923= 8 ' 8 : 3 3&&3D8 8 : ; 8 : 9= 7 ; 26 C 4956 92&9< 7 9893= 7 ; 43 98 : ; <4 & < : 9 7 8 ' =@ <8 ; 26 5 2H3< 8 : 3 : 3 ; B6 ? 39H : 8 &' 8 : 3 ; 4 7 929=<9 ; 89 2 &' 8 : 3 <3 ; 57 ' ; 24 8 : ; 8 : 3 : ; 4 43D9434 8 ' <3 7 B3 8 ' = 7 3 7 <3 83 7 3< ; 83 D59 7 3 ' 8 : 3<3 8 ' 32X 6 8 : 3 3 ; D3 &' <9B ; 83 59&3, &83< =3<9 @= 4359C3< ; 89 2 : 3 : ; 4 <3= 5B34 8 ' ; C49D ; 83 92 &; B @< &' : 9= 2 ; 8@< ; 5 : 39< ' ; 24 ? 9= : 34 8 : ; 8 2 3<492 ; 24 = : @54 ' ; 8 2D3 C3 <3D39B34 ; = >92H 92 ; 55 8 : 3 < B92D3 ' &' 8 : 3 ; 29= : D< ? 2, : ; 8 8 : 9= &<33 ; 24 = 28 ; 23 @= ; C49D ; 89 2 = : @54 C3 9 7 7 349 ; 8356 @CV 59= : 34 ? ; = 8 ' C3 8 : 3 4@86 &' 8 : 3 @2D95 &' ; =8953,

; ? ; 6‘ 8 : 3‘ &; B @<X83‘ ; 24‘ 8 : 3‘ 54‘ >92H‘ ; 24‘ =@C=898@834‘ & <‘ 8 : 37‘ ;‘ 6 @2H‘ ; 24‘ @5; <‘ 7 2 ; <D : ‘ : ; 4‘ & 9534‘ : 9=‘ 43=9H2,‘ 3‘ 494‘ 2 8‘ >2 ?‘ : ?‘ 2 ; ; <83‘ ? @54‘ 8 ; >3‘ 8 : 3‘ 23?‘ =98@ ; 89 2‘ ; 24‘ 73 ; 2V ? : 953‘ ? ;‘ =@<56‘ ; 24‘ 49=D @<83 @=,‘ @8‘ : 3‘ ? ;‘ 4383< 7 9234‘ 8 : ; 8‘ 8 : 3<3‘ = : @54‘ ; 8‘ 53 ; =8‘ C3‘ H< @24=‘ < B9434‘ & <‘ ;‘ C<3 ; D : ‘ ?98 : ‘ 3<492 ; 24‘ 9&‘ 8 : 3‘ 7 3< <‘ = : @54‘ <3= 5B3‘ 8 ‘ H ‘ 2‘ ?98 : ‘ : 9=‘ <9H92 ; 5‘ 5 ; 2,

* DD <492H56‘ : 3‘ 2 8‘ 256‘ <3&99=34‘ 8 ‘ ; D>2 ?534H3‘ 8 : 3‘ 23?‘ >92HA=‘ 89853‘ C@8‘ : ; =83234‘ 8 ‘ @8‘ : 9 7 =35&92‘ =3D<38‘ D 7 7 @29D ; 89 2‘ ?98 : ‘ 8 : 3‘ 438 : < 234‘ = B3<39H2=,‘ : 36‘ ?3<3‘ 256‘ 8 ‘ 3 ; H3<‘ 8 ‘ 7 338‘ : 97‘ : ; 5&V ? ; 6‘ ; 24‘ ; <9 ;‘ @9=;‘ 3= 3D9 ; 556‘ ? ;‘ = : ; 5&. 7 ; 4‘ ?98 : ‘ <; H3‘ ; 8‘ : 3< = 2A=‘ =@DD3==,‘ 8‘ &9<=8‘ = : 3‘ ; 24‘ : 3<‘ : @=C ; 24‘ 8 : @H : 8‘ &‘ 2 8 : 92H‘ C@8‘ 3=D ; 92H‘ &< 7‘ ; 92K‘ 8 : 36‘ C3HH34‘ @<; 8‘ 8 ‘ ; ==‘ 2‘ 8 ‘ 8 : 3‘ 7 3< <‘ 53883<=‘ 92‘ ? : 9D : ‘ 8 : 36‘ ; =>34‘ 8 ‘ C3‘ 3< 7 98834‘ 8 ‘ C@6‘ ;‘ 598853‘ 3=8 ; 83‘ 92‘ <; 23 ‘ ? : 3<3‘ 8 : 36‘ 7 9H : 8‘ 32X 6‘ : 9=‘ < 83D89 2‘ 47.92H‘ 8 : 39<‘ 43D592 92H‘ 63 ; <=,‘ @8‘ 8 : 36‘ C3HH34‘ ; 5= ‘ 8 : ; 8‘ T‘ 8 : 3‘ <‘ <92D3‘ &‘ 8 : 3‘ 3 ; D3‘ ? : ‘ 593=‘ 92‘ ;‘ 4@2H3 2‘ D B3<34‘ ?98 : ‘ ? @24=‘ ; 24‘ D 28@=9 2=‘ ; 24‘ 92‘ 4 ; 2H3<‘ &‘ 43 ; 8 : K‘ 7 9H : 8‘ C3‘ = ; B34‘ ; 24‘ ; 55 ?34‘ 8 ‘ X 92‘ 8 : 37 ‘ T‘ = ‘ 8 : ; 8‘ ?3‘ 7 ; 6‘ ; 55‘ 59B3‘ 8 H38 : 3<‘ 92‘ = 73‘ : 3 ; 58 : 6‘ = 8‘ &; <‘ &< 7‘ 928<9H@3=‘ ; 24‘ =8 ; 83‘ C@=923==‘ A

@<; 8‘ =; ?‘ 8 : ; 8‘ 8 : 3‘ ; 2H<6‘ 54‘ J@332‘ 7 9H : 8‘ C3‘ @8959R34‘ 8 ‘ 49=V D<3498‘ : 3<‘ = 2 ‘ ; 24‘ < 7 9=34‘ 8 ‘ =324‘ 2‘ 3B3<68 : 92H‘ 8 ‘ ; 53 2,‘ 8‘ 8 : 3‘ &9<=8‘ ? <4‘ &‘ 32D @<; H3 7 328‘ H9B32‘ C6‘ 8 : 3‘ %<; 24. @>3A=‘ ; H328‘ 3‘ 28 : 9 2‘ ; <9 ;‘ @9=;‘ C3H ; 2‘ 8 ‘ D B3<‘ 7 ; 26‘ = : 338=‘ ?98 : ‘ ; C@=3‘ &‘ : 3<‘ = 2,‘ T‘ 3‘ 9=‘ &; 5=3‘ 8 ‘ 8 : 3‘ D <3K‘ : 3‘ : ;=‘ 2 ‘ 2 ; 8@<; 5‘ ; &&3D89 2K‘ : 3‘ 9=‘ : ; <4. : 3 ; <834‘ ; 24‘ 2 ?9=3‘ 92D59234‘ 8 ‘ D53 7 32D6,‘ 3‘ : ;=‘ C332‘ 49<3D834‘ C6‘ B955 ; 92=‘ ; 24‘ ?955‘ 4 ‘ ; 268 : 92H‘ 8 : ; 8‘ ; 7 C989 2‘ =@HH3=8=$: 3‘ 7 ; >3=‘ < 79=3=‘ C@8‘ 4 3=‘ 2 8‘ ; 5? ; 6=‘ >33 ‘ 8 : 37‘ H ; 92‘ =: 3‘ ? 983=K T‘ < 7‘ 76‘ = 2‘ ?3‘ : ; B3‘ 2 8 : 92H‘ 8 ‘ 3G 3D8‘ C@8‘ @8<; H3=‘ ; 24‘ 3<=3D@89 2,‘ 3‘ : ;=‘ D 7 7 32D34‘ C6‘ & <H3<6‘ ; 24‘ : 3‘ 1?955 H ‘ 2‘ 7 ; 2@&; D8@<92H‘ 3B9432D3‘ 8 ‘ < B3‘ 8 : ; 8‘ 8 : 3‘ <92D3‘ &‘ 8 : 3‘ 3 ; D3 8 : ; 8‘ 922 D328‘ ; 24‘ ; &&3D89 2 ; 83‘ &<9324‘ &‘ 8 : 3‘ 7 3< <‘ 8 : 3‘ @>3‘ &‘ 3<H‘ ; 24‘ 3B3<6‘ <32D : 7 ; 2‘ ^ 7 ; 6‘ ; 3 ; <‘ ;‘ D<9 7 92 ; 5‘ 92‘ 8 : 3‘ 363=‘ &‘ 8 : 3‘ ; 29=:‘ 3 53‘ ; 24‘ ; C53 2‘ : 97 =35&,‘ ‘ 2 8‘ C3593B3‘ ;‘ ? <4‘ 8 : ; 8‘ : 3‘ =; 6=‘ & <‘ @<‘ 3237 93=‘ : ; B3‘ 8 : 3‘ ?3<‘ ; 24‘ 73 ; 2=‘ 8 ‘ 7 ; >3‘ ; 26‘ &; 5=3 : 4‘ =337‘ 8<@3 `,A‘ 2‘ ; 2 8 : 3<‘ 53883<‘ =: 3‘ =; 6=‘ 8 : ; 8‘ 8 : 3‘ <9 8=‘ &‘ <; 2X@3R‘ ?3<3‘ 2 ‘ H32@923‘ 3G 5 =9 2‘ &

‘ 33‘ 8 : 3‘ 53883<=‘ &‘ ; <D : ‘ $$. ‘ 92‘ <3&9 ‘ 3249G‘ 9,‘ LIN.L ,

* 3883<‘ &‘ ; <D : ‘ $ ‘ 92‘ <3&9 ‘ 3249G ^,‘ LL ,

,*‘ C94, ‘ ,‘ LIN,

@5;<' ?<;8:' C@8';'4359C3<;83' 5 8' H 8'@ ' C6' :3<= 2' ? : ' = 328' D @2853=='=@7=' 2' 43C;@D:92H' 8:3' = 5493<6';24' 97 <892H' <@&&9;2=' &< 7' ;4<94,' 3' H;B3' 8:3' =9H2;5' & <' 8:3' @8C@<=8' :97=35&' C6' @8892H';'5;7 ' 92' :9=' ?924 ?';8';'&9G34': @< ;24'=' & <8:

92492H' 8:3' U@332' 92' 8:9=' =8;83' &' 7924' 7.;8=;?':9=' ?;6'8 ' 43;592H';' 43;456'C5 ?';8' 3<492;24K ?98:':9=' D @2=35' ;24' D 2=328' 1) :;<53=' /' ?;=' 924@D34'8 ' 49A;?'@ ';24'=324'8 ' 2; ;<83';'& <7;5' < 83=8';H;92=8':9=' ;C49D;89 2,' 3' ?;=' 7;43'8 ' 43D5;<3'8:;8':9=' <3=9H2;89 2' :;4' 2 8' C332' B 5@28;<6'C@8' 97 =34' 2' :97'C6'& <D3' ;24'8:<3;8=,' 24'=' :3'I'8:< ?=':97=35&'928 '8:3';<7=' &'8:3'H<3;8' 7 2;<D:'?: ' :;=' C332':9=';556 ';24' @8=':97=35&;8':9=' 49= =989 2' ?: 6';24' & <' 3B3<6' @< =3' :9=' 4 D@7328' 5;D34' 7' ; 53 2A=' :;24=' 8:3' <3D9=3'?3; 2' ?:9D:' :3'<3J@9<34'8 ' D<@=:' 092H' 3<492;24,' &'8:3' 7 3< <'D: =3'8 '8;>3'98'=3<9 @=56':3'D @54' 43D5;<3'8:3'23?'7 2;<D:';'@=@< 3< ;57 =8';' ;<<9D943 8:3'53H;5986' &'?: =3';DD3==9 2' :;4'C332'B989;834'C6'& <D3';24'&<;@4,

='; '7;883<' &'&;D8' 2; ;<83A=' 7924':;4'5 2H' C332' 7;43'@ ,' :3'<3B 5@89 2' &' <;2X@3R':;4'C332';'=@< <9=3';24';'49=; 928V 7328'8 ' :97K :9=' 43=9H2=' :H;92=8' ;92'?3<3' 7;43'92&9298356'7 <3' 49&&9D@58' &'<3;59R;89 2' 8:3<3C6,' :953':3':;4' 256'8:3'?3;>';24' @2 @5;<' H B3<2 7328' &'% 4 6';24' :;<53=' /' 8 ' 43;5 ?98:' ' :3':;4'&;2D934'8:;8'8:3'H;7 3'?;=' 92':9=':;24=,' 8':;4'C332' 7 <3' 8:;2' < C;C53'8:;8'8:3' <92D3' &'8:3' 3;D3'? @54'8;>3'&<9H:8';24' D;<<6' &&' 8:3' 092H' ;24' U@332'8 ' 73<9D; 92' ?:9D:' D;=3' :3' ? @54' ;=' 98' ?3<3'&924' ;92'53&8'43<359D8,' &' : ?3B3<' 8:3' 379V H<;89 2' 494'2 8'8;>3' 5;D3';24'98'C3D;7 3' 23D3==;96'8 '5;6':;24=' 2' :;<53=';24':9=' &;B 9@<983' ; 53 2' D;5D@5;834'8:;8'8:3' ;29;<4=' ? @54'C3'7 <3' 53;=34'8J'C3'<94' &'% 4 6'8:;2';2H<6'8 '=33'& <D3' 37 5 634';H;92=8':97,' 3' ?;=' = ' < & @2456'9H2 <;28' &'8:3' D:;<;D83<' &'8:3'2;89 2'8:;8':3'97;H9234'8:;8';'&3?':9H:.= @2492H' < D5;7;89 2=';24' < 79=3=' &'59C3<;5<3& <7=' ? @54'924@D3'8:37' 8 ' ;DD3 8' &< 7' :9=' :;24=';26'23?'= B3<39H2' ?: 7' :3' D: =3'8 ' 2 7 92;83,' 8' ?;=' D53;<8:;8'8:3';DD3==9 2' &';'6 @2H';24' @5;<' >92H' ? @54' 7;>3' 7;883<=' &;<' 7 <3' 49&&9D@58,' 8' ?;=' 2 ' 5 2H3<' ==9C53' 8 ' =3';=8:3' 4359B3<3<' &' ;92'&< 7'8:3'=:;73&@5 <3V 4 7 92;2D3' &'% 4 6,' 26' 7 B3';H;92=8' 3<492;24' 7@=8' C3;<' 8:3'D:;<;D83<' &';2' 32';==;@58' 2'8:3'2;89 2;5 9243 32432D3' &' 8:3'>92H4 7,

' 3883<' &' ;<D:'$N'92' <32 '9,'LI",
* :3' < 83=8' &' :;<53=' /'B955'C3'& @24' <92834'92' 3249G' ,'L,

:9=' =8;83' &' =3 7 9.=@= 32434' <35;89 2=' 5;=834' & <' ;' & <829H:8' &< 7' 3<492;24A=' ;9.<9B;5' 92' ;4<94' 2' ;<D:' $L' 4 (B2' 8' :9=' 43 ;<8@<3*' &< 7' 98' 2' <95' #,' 5936' ?3<3' B3<6' @2D 7& <8;C53' ?33>=' & <' 8:3' 23?' >92H' ?:' H<3?' 7 <3' ;5;<7 34' ;=' 3;D:' 4;6' ;==34' ?98: @8' ;' 53883<' &< 7' ;<9=' <;899 42H' :9=' 89853' ?:953' <32D:' 8< =' D 2892@34' 8' @<' 928' ;4<94' 89' = 73' I ###' ?3<3' ;==3 7 C534' 92' 98' ;24' 98=' =@C@<C=,

' B3<6' &3?' 4;6=' ;&83<' :9=' ;DD3==9 2' 3<492;24' ?;=' 92& <7 34' 8:;8' 98' ?;=' < C;C53' 8:;8' ; 53 2' ?;=' 92832492H' ;' B9=98' 8' ;4<94' ;24' ?;=' ;8' ;26' <;83' D 7 92H' ;=' &;<' ;=' ;6 223,' 3' 9 7 7 349;8356' =328' &&:9=' 3543=8' C< 8:3<' 2' ;<5 =' 08:3' :3<' &' 8:3' @2:; 6' ?;<=' &' MII.L#P' 8' D 7 597 328' :9=' ;8< 2' ;24' 9&' 23D3==;<6' 8' <3D39B3' :9 7' ;8' 8:3' &< 2893<' W <95'],' ? ' 4;6=' 5;83<' 8:3<3' ; 3;<34' 92' ;4<94' ;' 23?' <32D:' 3 7 9==;<6,' %323<;5' ;B;<6 ";&83<?;<4=' @>3' &' B9H ?:' @< <834' 8' D 7 3' ;=' 2; ;<83A=' :;<C92H3<*' D:;<H34' ?98:' 8:3' 4@86' &' <3 ;<92H' ;4<94' & <' :9=' ;<<9B;5,' 3' D;<<934' 8:3' &;<D3' =' &;<8:;8' :3' ;=>34' & <' ;' ;5;D3' & <' 8:3' 7 3< <A=' <3=9432D3' < 4@D34' 8<@2>=' &' :9=' <9B;83' 5@HH;H3'O' ;24' C3H;2' 8' <3&@<29=:' 8:3' ; ;<8 7 328=' H<;2834' :9 7,' :;8' :3' C <3' =3D<38' <43<=' & <' @<;8' ?3'>2 ?'&< 7' 8:3' 5;883<A=' 49= ;8D:3=' C@8' 8:9=' ?;=' 256' :;5&:9=' 8;=>,' ; 53 2' :;4' D 2&9434' 8' :9 7' B3<C;5' 92=8<@D89 2=' 8' 5@<3' 3<492;24' 8' D 7 3' @8' 8' 7 338' :9 7' 92' 8:3' 2 <8:' &' ;92' ;7 2H' 8:3' <32D:' ;<7 93=' 7;==34' 92' 9=D;6' ;24' ;B;<<3 9&' ==9C53' 3B32' 8' H38' :9 7' 8' ;6 223' 2' <32D:' = 95,' 2' :9=' 8,' 3532;' 7 3 7 9<=' ; 53 2' 43293=' 8:9=' ;24' ;B;<6' 92' :9=' ;@8 C9 H<; :6' ;5=' =8;83=' 8:;8' :3' 494' 2 8' ;D8' 8:3' ;<8' & 83 7 83<' <' 7;>3' ;26' < 7 9=3=' 8' 8:3' 6 @2H' >92HK' 8:3' X @<236' 8' ;6 223' :3' =;6=' ? ';' =9 6' 92= 9<;89 2' & 3<492;24A=' ?2,' @8' 2398:3<' 2; ;<83' 2 <' ;B;<6' ;<3' ?9823==3=' ?:7' 23' ? @54' C3593B3' 2' 8:39<' 7 =8' = 53 7 2' ;8:,' :3' & <7 3<?3'>2 ?'?355K' 8:3' 5;883<' :;4' C332' 23' &' 8:3' 3<= 2=' 7 =8' 9 7 59D;834' 92' 8:3' =: D>92H' 7 @<43<' &' 8:3' @3' 4A 2H:932,' A :32' ?3' &924' 8:3' ;29=:' ?9823==3=' ?:' D 2B3<=34' ?98:' ;6;<6' 4@<92H' :9=' =: <8' =8;6' 92' ;4<94' ;H<3392H' 8:;8' 8:3' H323<;5' < 7 9=34' 8:;8' ; 53 2' ? @54' <3D H29R3' 3<492;24' ;=' >92H' H9B3' :9 7' ;2' 9 7 3<9;5' <92D3=' ;=' ?9&3' ;24' 8;>3' :9 7' 928' &;B @<' ?3' 2334' 2 8' 4 @C8' 8:3 7,' 8' 9=' 2 8' 49= @834

; 53 2' :9 7 =35&5 2H' ;&83<,' 8' 9=' J@983' 92D 2=9=8328' ?98:' 8:3' &&3<' 8' @9=' 2; ;<83' ;24' ?98:' 8:3<' 53883<=' 8' @<;8' &' 8:3' =;73' ?33>,

' 8' 9=' =;94' 8:;8' 8:36' ;&83<?;<4=' 8@<234' @8' 8' C3' &@55' &' =7@HH534' H 4=' ;' <9B;83' = 3D@5;89 2' &' ;B;<6' <:9=' @243<592H=,

8:;8 ;B;<6 @259>3 @<;8 ;24 3;@:;7 ;9=<3H@5;<56 ;44<3==34 :9= B9D897 C6 8:3<6;5 89853 ;24 98 9= D3<8;92 8:;8 :3 =8;<834 92 :9= D 7 ;26 ;24 ;D834 ;= :9= >33 3 4@<92H 8:3 X @<236 , :3 7 B3 8:;8 :3 ;8 &9<=8 < =34 ?;= 2 8 ;5 2H, 23K 8:3 H323<;5 =;94 8:;8 ;DD <492H 8 :9= ;4B9D3= 8:3 7 3< < 7@=8 C3 4@3 ;8 @<H = 2 <95 IK 98 ? @54 C3 897 3 32 @H:8 =8;<8 8 7 338 :97 2 8:3 8328: @<H = 593= ?355 92=943 8:3 &< 2893<= &;=8953 ;24 9& 98 ?;= ;D>34 ?98:<32D:8< = = ?;= ;4<94K 23 5;D3 ?;= 2 7 <3 4;2H3< @= 8:;2 8:3 8:3<,

G;D856 : ?&;<8:3 3<X@<93= &;B;<6 ?328 <: ?&;<:3 ?;= ; <9=34 &:9= 7;=83<A= &92;5 9283289 2= ?3 D;22 8 8355 C@8 98 9= D3<8;92 8:;8 2 <95 # :3 =38 @8 &< 7 ;4<94 92 8:3 O92HA= D 7 ;26K ?98:8:37 ?328 =D 9J@9R 3<492;24A= D53<9D;5 D 2&94;28 3B;55 = 8:3 7929=83< &&< <39H2 ;&&;9<= ;24 :;5& ;4 R32 4@>3= ;24 7 ;<J@9=3= D: =32 &< 7 ;7 2H 8:3 O92HA= 54 ;<89=;2=, ;47929=83< ;&&;9<= 92 :9= ;C=32D3 3<492;24 2 792;834 ;T-@28;A <D @2D95 &9A3H32D6 ?98:9= @2D53 2 28 29 ;=97 53 ;24 B3<6 =9556 54 7;2 ;8 98= :3;4

2 <3;D:92H @<H = 2 <95 $ 8:3 ;<86 & 974 7;==3= &<32D:8< = C@8 2 =9H2= &; 53 2, ;B;<6; 3;<34 B3G34 =;94 8:;8 :9= D;5D@5;89 2 7@=8 :;B3 C332 ?< 2H ;24 H 8 8:3 O92H 8 H & <?;<4 8? 7 <3 =8;H3=;= &;< ;= /988 <9; ;8 8:3 = @8:3<2 & 8 &8:3 6<3233= W <95 L], 3<3 3<492;24 <3D39B34 ;2 83 &< 7 :9= C< 8:3< 2 ;<5 = ? : 7 :3 :;4 =328 ;:3;4 =;692H 8:;8 2; ;<83 :;4 C332 592H3<92H ;8 <43;@G ;24 ?;= 2 8 3GV 3D834 ;8 ;6 223 8955 8:3 &9&83328:, 3<492;24 ;5?;6= 897 94 ;24 =@= 9D9 @= ? ;= H38892H <3=89B3K :3 :;4 2 8:92H 2 ; 3< 8 ;==@<3 :97 & ; 53 2A= 9283289 2= ;24 C3H;2 8 =@= 3D8 ;B;<6A= C5;24V 9=:7328=, :3 5;883< 4 @C834 & <;7 7328 ?:38:3< :3 =: @54 2 8 :;B3 8:3 D @<8 =39R34 C6 8:3 <32D:H;<<9= 2 &/988 <9; C@8

;B;<6 92 :9= 7324;D9 @= ;@8 C9 H<; :6 43293= 8:;8 :3 3<=@;434 3<492;24 8 =8;<8 & < ;6 223, @8 :3 9= <3&@834 :6 8? D 2837 <;<6 4 D@7328=, :3 6 @2H >92H 92 :9= 53883< &;493@ 8 :9=&;8:3<=8;83= 8:;8 ;B;<6 :;= D 2B92D34 :97 &8:3 23D3==986 &H 92HS ?:953 @<;8 92 ;' 49= ;8D:8 2; ;<83=;6= 8:;8 T ;B;<6 :;= 99 '2 =7;55 43H<33 D 28<9C@834 8 924@D3 8:3 23?' D @<8 8 J@98 ;4<94A W <95 M],

* < 2 28 29 A= :;C98= ?3 :;B3 2 ;5536<;24A= ;@8: <986 = 73 B3<6 D@<9 @= =8 <93=, 3 = 328 7 =8 &:9= 8973 &D; 89B986 ;8 /;532D6 =98892H 92 8:3 59C<;<6 7@895;892H 955@=8<;834 C >= ?98:9= =D9== <= 2 8 8 7;>3 ;=D<; .C > C@8 8 43=8< 6 ;26 32H<;B92H= 8:;8 =92234 ;H;92=8 7 <;5= < <359H9 2^

&92;556<3= 5B34 8 3243;B @< 8 H38 ;53883< &< 7 :9= 7 ;=83< ? :9D: ? @54 =@&&9D3 8 5@<3 3<492;24 ;D< == 8:3 &< 2893<, 3 ?;= 328<@=834 ?98:;38989 2 &8:3=;73D;=8 8:;8 ; 53 2 :;4 C332 92 8:3 :;C98 &<3D39B92H &< 7 :9= ? @54.C3 D59328 &@55 &=3<B953 5 6;586;24 437;24= & <8:3 7@D:.43=9<34 2 ;<83 <92D3==, :3 & 9@\ 4;6= 4@<92H ?:9D: ;B;<6 ?;= ;C=328 ?:953 8:3 < 6;5 ;<86 <37;9234 ;8 /988 <9;?3<3 ;3<9 4 &:;<;==92H 4 @C8 8 3<492;24, 3?;= B9=9834 C6 ;55 7;223< & 3<= 2= ?: C3= @H:8 :97 2 8 8 H 2 ;24 3= 3D9;556 C6 ;29;<4= 5;8356 ;<<9B34 &< 7 ;<9= ?: 438;9534 ;55 8:3 49=J@93892H <@7 @<= ?:9D: 8:36 :;4 :3;<4 ;8 8:3 <32D: D @<8, 73C3= @H:8 :97 8 49=H@9=3 :97 =35& ;24 3=D; 3 C6 29H:8 &< 7 8:3 L ###8< = &8:3 7 3<9;5 %@;<4 ?: H;<<9= 234 /988 <9;, 8:3<= 92834 @8 8:;8 8:3 ;29=: 8< = 92 95C; ?:9D: ?;= =8955 @2 DD@ 934 C6 8:3, <32D: 7 9H:8 C3 C< @H:8 4 ?2 C6 D< ==.< ;4= ;24 ;==@73 D:;<H3 &8:3 >92H= 3<= 2 :;5&?;6 C38?332 /988 <9;; 24 8:3 &< 2893< 92 = 983 &8:3 N## <32D: D;B;5<6 ?:9D: 3=D <834 8:3 D;B;5D;43, %@;<434 C6 :9= ?2 732 3<492;24 7 9H:8 <389<3 928 8:3 :955= & 9=D;6, @8 8 ;4 8 398:3< &8:3 D @. 3= < =34 8 :97 ? @54 :;B3 D 7 V 3534 8:3 092H 8 D 73 8 ;2 32 C<3;D: ?98: 2; ;<83 ;24 & < 8:9= :3 :;4 2 83@&&9D9328 D @<;H3 ;= 5 2H ;= 8:3<3 ?;= 8:3 =59H:83=8 D:;2D3 &H38892H =;&356 8:< @H: :9= 8< @C53= C6 73<3 =3<B95986, 2 <95 M ;B;96 <3; 3;<34 ?98: 8:3 3G 3D834 D 7 7@29D;V 89 2 &< 7 ;6 223, 8 ?;= D3<8;9256 23 &8:3 =8<;2H3=8 3 9=853= 8:;8 23 = B3<39H2 3B3< ?< 83 8 ;2 8:3< ;24 23 &8:3 7 =8 D:;<;D83<9=89D < 4@D8= & ; 53 2= 32, 8 ?;= ;44<3==34 8 8:3 <92D3 &8:3 =8@<9;=2 8 8 8:3 092H &;92 ?:9D: ?;= ;2 7 92 @= <3&;D3, @8 2 8:3 8:3< :;24 8:3 7 3< < 49=892D856 =8;834 8:;8 : 3 ?9=:34 8 D 2D959;83 :9= &<9324 92 3B3<6 ?;6 ;24 8 &924 DD;=9 2 8 H9B3 :97 < &= &:9= ;&&3D89 2 ;24 3<&3D8 3=833 7 , 3 ;4434 8:;8 : 3 ?8:3 7;<<9;H3 &6 @< < 6;5 :9H:23== 8 ;<32D: <92D3== =337= D 2& <7;C53 8 8:3 9283<3=8= &76 3 53 ;24 59>356 8 & <H3 23?592>= &@29 2 C38?332 7 6=35&;24 8:3 : @=3 & 97C 2, :3 D <3 &8:3 ?: 53 ?;= 8:3 3G 59D98 =8;837328 8:;8 9&8:3 ;C49D;89 2 &092H :;<53= ?;= = 28;23 @= ;24 2 8 & <D34 2 :97 C6 8:3) <9 8 ;8 , ;2X@3R = :;55 :;B3 2 49&&9D@586 92 <3V D H29R92H 6 9<< 6;5 :9H:23== ;= 092H & ;92, 2 8:3=3 438;95= ?9=:8 D 2B3<=3 ?98:6 @< < 6;5 :9H:23==, :9= ?;= ;4 @C53. 34H34 =;692H ; 53 2 :;4 92 :9= D>38 :;<53=< 83=8 D 7 V 5;9292H 8:;8 8:3 ;C49D;89 2 :;4 C332 & <D34 @ 2 :97 C6 &3;9.=

& <' :9=$ 3<= 2;5 =;&386K C@8$ 3<492;24$?;=$ 2 8$;?;<3$ &$ 8:3$ &;D8$ 924334$:3$ =' 598853$ <3;59R34$:9=$;<328A=$ =8;83$ &$ 7924' 8:;8$:3$:;4$?<98832$ 8 ' :97' C3& <3$ J@98892H$;4<94$ 92$ 8:3$ 7 =8$ &<932456'83<7=,$ &$:3$:;4$ &;8: 734$ 8:3$ 73;292H$ &$; 53 2A=$ D;<3&@556' D 2V =8<@D834$ =32832D3' :3$? @54$:;B3$ &534$ & <' :9=$ 59&3$ 8 ' 8:3$ 7 @28;92=, :3=3$?3<3$ 8:3$ 7;92$ D5;@=3=$ &$; 53 2A=$ 53883<' C@8$ 8:36$;<3$ 37C34434$ 92$;$ J@;28986$ &$ 87.H94$ B3<C9;H3' 92$? :9D:' ?3$;<3$ 256$ @2D3<8;92$? :38:3<8:3$:6 D<9=6$ <' 8:3$ C;4$ 8;=83$ 9=$ 8:3$ 7 <3$ &&32=9B3,$ T ?' 3<95 @=$ 9=$ 98$ & <' >92H=$ 8 ' 3<7 98$ 8:39<' =@CX3D8=$ 8 ' =33>$ X@=89D3$ & <' 8:37=35B3=$ C6$ 4334=$ &$ C5 4$ ^ ' <;6$ % 4$ 8:;8$ 6 @<' < 6;5$:9H:23==$ 7;6$ 2 8$ 3G 3<932D3$ 8:9=$ & <' 6 @<=35&$ = 73$ 4;6^ 8$ 9=$ 2 8$ & <' 8:3$ 9283<3=8$ &$;92$ 8:;8$ 8:3$ <92D3$ &$ 8:3$ 3;D3$ =: @54$ C3$:@2834$ 4 ?2K :3$ 9=$;55934$ C6$ 7;<<9;H3$ 8 '8:3$ < 6;5$: @=3$;24$:;=$ H B3<234$ 8:3$ <3;57$ & <' 7;26$ 63;<=,$ 3$:;=$ 2 ' &<9324=$ 2 ?K C@8$ 9&$ 6 @<' < 6;5$:9H:23==$?3<3$ 8 ' &;55$ 928 ' =97 95;<' 49=H<;D3$ 6 @$? @54$:;B3$ 2 ' 7 <3$ &<9324=$ 8:;2$:3,$ @$ D;22 8$ 8 @D:' :97' ?98: @8$ 8 @D:92H$ 6 @<' ;<328=,$ @$:;B3$ 2 ' <9H:8=$ 8 ' 8:3$ D< ?2$ =;B3$ 8: =3$?:9D:' 6 @<' 7 8:3<:;=$ 8<;2=7 98834$ 8 ' 6 @K 9&$ 92$ 89692H$ 8:3$ <92D3$ 6 @$ =79<D:' :3<: 2 @<' 6 @$;<3$ 43=8< 692H$ 6 @<' ?2$ <9H:8=,$ @$:;B3$ 2 ' ?3<' 8 ' C<92H$:97' 8 ' X@4H37328K :9=$ 3B95$ 4334=$;<3$:94432$ C3:924$ 8:3$ 8:< 23,$,$,$ ' ?<38D:34$ @7;2986^ 3;>23==' ;24$ << <' =@D:' 9=$ @<' 43B9D3$ ^ @8$;55$ D;2$ C3$:@=:34$ @ 'K 8@<2$ 8:3$ <92D3$ @8$ &$;92' ;24$ ' ?955 H9B3$:97' ;2$;=65@7' 92$ <;2D3,A

2$ 8:3$ 23G8$;<;H<; :' ; 53 2$ 83 =$ 3<492;24$ 8:;8$:3$ =: @54$ 23B3<' :;B3$?<98832$ 8 ' :97' 92$ 8:3$ <3D3492H$;@8@7 2$?98: @8$:9=$ &;8:3<A=$ >2 ?534H3 T92$ 8:;8$ 6 @<' < 6;5$:9H:23==$?;=$ D@5 ;C53$ C@8$ ' &5;883<' 7 6=35&$ 8:;8$ ' D 28<9C@834$ C6$ 7 6$ <37 2=8<;2D3=$ 92$ =3D@<92H$;' :; 6$ 324$ 8 ' 8:3$;&&;9<' &$ 8:3$ =D@<9;5,A$ 92;556$ 3<492;24$ 7 9H:8$;==@<3$:97 =35&$ 8:;8$:3$ =: @54$:;B3$ &< 7' :9=$;556$ <3D9=356$ 8:3$ =;7 3$ 8<3;87328$ 8:;8$:9=$ &;8:3<:;4$;5?;6=$ 3G 3<932D34$. ?:9D:' ;H;92$ 9=$;' 4 @C53.34H34$ =;692H' 9&$?3$ 8;>3$ 928 ' D 2=943<;89 2$ 8:3$:9=8 <6$ &$ 8:3$ <35;89 2=$ &$:;<53=$ /' ;24$ <;2D3,

:3$ 092H$;24$:9=$ D 2&94;28$ =D 9J@9R$ <3;4$;24$ <3<3;4$ 8:9=$ D@<9 @=$ 4 D@7328$?98: @8$ D 792H$ 8 ' ;26$ D3<8;92$ D 2D5@=9 2$ < C;C56$ 8:36$ 8: @H:8$ 0;=' ? @54$;26$ 23$ 35=3' ?:' 494$ 2 8$ >2 ?' 8:3$ 7 3< <' 8: < @H:56P$ 8:;8$ 8:3$ 733892H$;8$;6 223$? @54$ 32$?98:' ;' =D 5492H' ;24$ 324$?98:' = 73$ 89<3= 73$ D 2D3==9 2=' C@8$ 8:;8$ 3<492;24A=$ 89853$? @54$ C3$ *<3D H29R34,$;B;<6A=$ D 7 7328;<6' ?;=$ <3;==@<92HK ;29=:' ?9823==3=;6$ 8:;8$:3$ 3GD5;97 34$ T' ;7' <3;468

:;B3ﾠ 76ﾠ :3;4ﾠ 8;>32ﾠ &&ﾠ 9&ﾠ ?98:92ﾠ ;ﾠ J@;<83<ﾠ &ﾠ ;2ﾠ : @<ﾠ &ﾠ6 @<ﾠ 7;X3=86A=ﾠ ;<<9B;5ﾠ ;8ﾠ ;6 223ﾠ8:3ﾠ 7 3<ﾠ <ﾠ:;=ﾠ2 8ﾠ=;5@834ﾠ6 @ﾠ ;=ﾠ 092Hﾠ &ﾠ ;92ﾠ ;24ﾠ 8:3ﾠ 2493=,ﾠ ,ﾠ ,ﾠ ,ﾠ :3ﾠ ?: 53ﾠ 23H 89;89 2ﾠ ?955ﾠ 2 8ﾠ 8;>3ﾠ 8:<33ﾠ 4;6=ﾠ ;24ﾠ 6 @<ﾠ 7;X3=86ﾠ ?955ﾠ C3ﾠ C;D>ﾠ 92ﾠ ;92ﾠ 92ﾠ ;ﾠ 7 7328

2ﾠ <95ﾠ "ﾠ8:3<3& <3ﾠ8:3ﾠ< 6;5ﾠ ;<86ﾠ=38ﾠ @8ﾠ ;794ﾠ8:3ﾠH< ;2=ﾠ &ﾠ8:3ﾠ @5;D3ﾠ &ﾠ/988 <9;ﾠ ?:ﾠ 8<934ﾠ8ﾠ:ﾠ 54ﾠC;D>ﾠ8:3ﾠ: <=3=ﾠ ;24ﾠ8ﾠ D@8ﾠ8:3ﾠ8<;D3=ﾠ &ﾠ8:3ﾠ092HA=ﾠD ;D:K 2ﾠ8:3ﾠ8?328938:ﾠ8:36ﾠ <3;D:34ﾠ ;6 223,ﾠ ; 53 2ﾠ3283<8;9234ﾠ8:37ﾠ;8ﾠ49223<ﾠC@8ﾠ? @54ﾠ 2 8ﾠ8;5>ﾠ :89D=K ;&83<ﾠ8:3ﾠ73;5 8:36ﾠ?3<3ﾠ=328ﾠ: 73ﾠ8ﾠ8:3ﾠ2 8ﾠ B3<6ﾠ= ;D9 @=ﾠ <ﾠ7;H29&9D328ﾠ5 4H92H=ﾠ <3 ;<34ﾠ& <ﾠ8:37,ﾠ 2ﾠ: @<ﾠ 5;83<ﾠ8:3ﾠ=:;7353==ﾠ ;B;<6ﾠ <3=32834ﾠ:97=35&ﾠ;8ﾠ8:3ﾠ4 <ﾠ?98:ﾠ8:3ﾠ ;=8 @2492Hﾠ 73==;H3ﾠ8:;8ﾠ8:3ﾠ 7 3< <ﾠ:;4ﾠ8: @H:8ﾠ 7;883<=ﾠ B3<ﾠ ;24ﾠ::;4ﾠD 73ﾠ8ﾠ8:3ﾠD 2D5@=9 2ﾠ8:;8ﾠ8:3ﾠC3=8ﾠ8:92Hﾠ& <ﾠ ;92ﾠ? @54ﾠ C3ﾠ8:;8ﾠ8:3ﾠ: @=3ﾠ &ﾠ @<C 2ﾠ=: @54ﾠD3;=3ﾠ8ﾠ<39H2ﾠ;24ﾠ8:;8ﾠ ;ﾠ /32D:ﾠ <92D3ﾠ=: @54ﾠ8;>3ﾠ8:39<ﾠ 5;D3,ﾠ ﾠ< 7 8ﾠ;DJ@93=D32D3ﾠ 92ﾠ8:3ﾠC;<H;92ﾠ=: @54ﾠC3ﾠ<3?;<434ﾠC6ﾠ8:3ﾠH9&8ﾠ &ﾠ8:3ﾠ>92H4 7ﾠ &ﾠ 8<@<9;ﾠ?:9D:ﾠ:;4X@=8ﾠC332ﾠ8;>32ﾠ&< 7ﾠ 3<492;24A=ﾠ?94 ?34ﾠ=9=83<ﾠ ;24ﾠ:3<6 @2Hﾠ= 2,

:3ﾠ ==9C95986ﾠ &ﾠ=@D:ﾠ;2ﾠ @8<;H3ﾠ:;4ﾠ23B3<ﾠ DD@<<34ﾠ8ﾠ8:3ﾠ 6 @2Hﾠ>92Hﾠ;24ﾠ:9=ﾠD 97=355 <=K ?:32ﾠ= 738:92Hﾠ &ﾠ8:3ﾠ>924ﾠ:;4ﾠ C332ﾠ=@HH3=834ﾠ8ﾠ8:37ﾠ;&ﾠ/988 <9;ﾠ8:36ﾠ:;4ﾠD<934ﾠ @8ﾠ8:;8ﾠ98ﾠ?;=ﾠ 92=@5892Hﾠ8ﾠ8:3ﾠ: 2 @<ﾠ &ﾠ8:3ﾠH<3;83=8ﾠ:3<ﾠ &ﾠ8:3ﾠ;H3ﾠ8ﾠ4<3;7ﾠ 8:;8ﾠ:3ﾠD @54ﾠC3ﾠ 5 8892Hﾠ8<3;D:3<6 ,ﾠ 24ﾠ2 ?ﾠ8 ﾠ5;83ﾠ8:36ﾠ53;78ﾠ 8:3ﾠ=8@&&ﾠ &ﾠ?:9D:ﾠ:3< 3=ﾠ?3<3ﾠ7;43,ﾠ B32ﾠ?98:ﾠ ;B;<6A=ﾠ? <4=ﾠ <92H92Hﾠ92ﾠ8:39<ﾠ3;<=ﾠ8:36ﾠD @54ﾠ2 8ﾠC3593B3ﾠ8:;8ﾠ8:36ﾠ:;4ﾠ:3;<4ﾠ ;<9H:8,ﾠ 8ﾠ7@=8ﾠC3ﾠ=73ﾠ73<3ﾠ8:<3;8ﾠ92832434ﾠ8ﾠ&<9H:832ﾠ8:37ﾠ C3&<3ﾠ23H 89;89 2=ﾠC3H;2K < C;C56ﾠ98ﾠ73;28ﾠ8:;8ﾠ ;92ﾠ? @54ﾠ :;B3ﾠ8ﾠD343ﾠ=73ﾠ 73<9D;2ﾠD 5 293=ﾠ <=73ﾠ ;8;529;2ﾠ&< 2893<ﾠ 49=8<9D8=,ﾠ 3G8ﾠ7 <292Hﾠ)8:3<3& <3ﾠ 3<492;24ﾠ=328ﾠ:9=ﾠ7929=83<ﾠ 3B;55 =ﾠ8ﾠ 53;4ﾠ:9=ﾠD;@=3ﾠ ; 53 2ﾠ<3&@=34ﾠ8ﾠC;<H;92ﾠ <ﾠD 7V < 79=3K :3?;2834ﾠ2 8:92Hﾠ:3=;94ﾠC@8ﾠ;ﾠ < 7 8ﾠ<3=9H2;89 2ﾠ &ﾠ:9=ﾠ<9H:8=ﾠC6ﾠ8:3ﾠ <92D3ﾠ &ﾠ8:3ﾠ =8@<9;=5ﾠ8:3<3ﾠ?;=ﾠ2 8:92Hﾠ53&8ﾠ 8ﾠ:;HH53ﾠ;C @8,ﾠ 8ﾠ?;=ﾠH<;4@;556ﾠC <23ﾠ92ﾠ@ 2ﾠ 3<492;24ﾠ8:;8ﾠ 8:3ﾠ 7 3<356ﾠD 2892@34ﾠ8ﾠ=324ﾠ8ﾠ ; 53 2ﾠ 23ﾠ;H328ﾠ;&83<;2 8:3<

ﾠ 3B;55 =ﾠ ,ﾠIN,

] * 8ﾠ?;=8:3ﾠ @>3ﾠ &ﾠ2&;28;4ﾠ?:ﾠ7;43ﾠ8:9=ﾠ3GD5;7;89 2,ﾠ 33ﾠ <J@9X A=ﾠ 53883<ﾠ8ﾠ @3=8;ﾠ92ﾠ 5 <3283A=ﾠD 553D89 2ﾠ &ﾠ ; 3<=ﾠ 2ﾠ8:3ﾠ ;6 223ﾠC@=923==,

$ E 14, '=F

&9<=8 8:3 7929=83< 3B;55 ='8:32 :9=8@8 <;24 D 2&94;28 =D 9J@9R 8:32 2 34< ;C<;4 <';D @2D955 < &=8;83';55 D:;<H34 ?98:' < &3==9 2= &:9=H<3;8<3;4923==8 '4 ';268:92H'=: <8 &'<3=9H292H 8:3 ;29='8:< 23 ?:9D:'7 9H:8 =;89=&6:9=D; 8 <, 3B;55 = ;24 =D 9J@9R :;B3 53&8 5 2H 2;<<;89B3= &'8:39< &9<@9853== 37C;==93=, :;8 &'8:3 5;883<9= 3= 3D9;556 9283<3=892HK :3 ?;= ;47 98834 8 ';' 5 2H D 2&3<32D3 ?98:' 2; ;<83 92 ?:9D:':H 5934 3B3<6;<H@7328 8 '924@D3:97' 8 '53;B3 3<492;24 2 8:3 8:< 23';&83< 7;<<692H :97' 8 ';, <32D:' <92D3==;24 3G;D892H &< 7':97' 3B3<6 ==9C53 H@;<;2833 &'&9435986, :3 7 3< <?;= <3;46 8 '59=832 8 ' 3B3<6 <37 2=8<;2D3 C@8 ? @54 2 8 7 B3 &< 7':9= < X3D8=, 3 5;@H:34 ;8)8:3 943;8:;8 ;92 ? @54 <9=3 92 ;<7=';24 H9B3:97 8< @C53, T @28<93=&@55 &'7 2>='59>3 6 @<=A:3=;94 'T';<3 3;=6 8 '=@CX@H;83, :3<3 7;6 C3= 7 3 <9 8='C@8 8:3 ;29;<4=?955 J@938 4 ?2?:32 8:36 =33 8:;8 ' &&3< 8:37 8:3 9283H<986 &'8:3 C @24;<93= &'8:3 7 29@D:6 ';' 59C3<;5 D 2=898@89 2 ';24 8:3 <3=3<B;89 2 &'8:39< <359H9 2';24 8:39< 2;89 2;5 D@=8 7

932 =@D:'?3<3 ; 53 2=94 3;= 98 ?;= @=353== 8 ';<H@3 ?98:' :97, @8 3<492;24 <3&@=34 8 '@243<=8;24 8:9='';24 >3 8<3983<;892H ;55 = <8= &'97 <;D89D;C53 &&3<= &'D 2D3==9 2 ';24 =@C=3<B932D3 ' ?:953 <3&@=92H 8 ' 4 ' 8:3 23 8:92H ?:9D:'8:3 7 3< <'<3J@9<34 &':97, ; 53 2 ' 7@D:'9<<98;834 ;8 8:3 <3&@=;5 &'=@D:';' < D<3;8@<3)8 ' C ?'8 ' :9= ?955 ':;= 53&8 ;'=>38D:' &':97 4@<92H 8:3=3 8<692H 4;6=, T :3 <92D3 &'8:3 =8@<9;=A:3 ?< 83 'T9= B3<6 =8@ 94 'B3<6 7;59D9 @='; 'B3<6 H<3;8 :;83< &' <;2D3, ; ; ; 3 9= ;' 8: < @H:56 @29283<3=892H 3<= 2 ' = ' 4@55 8:;8 ' D;22 8 H38 ;' ? <4 @8 &':97, :;83B3< 23 =;6= 8 ':97':3 7;>3= 2 '<3 56, :38:3< '=D 54':97 ' <?:38:3< 'D ;G:97 ':9=&;D3 23B3< 7 B3=, &83< =8@4692H :97' 6 @ D;2 =@7':97' @ ' 92 ;' =92H53 ? <4 :3 9= ;' =@5>6 &355 ?' ,A

= 3<492;24 ? @54 2 8 C@4H3 2; ;<83 :;4 2 ?'8 'C<92H :9= =3D 24 43B9D3 8 ' 8:3 &< 28, 98:'8:3 54 >92HA= < 83=8 C3& <3 :97 '8:3 7 3< <'D @54 =;6 8:;8 :;<53= /':;4 23B3<;C49D;834 92 ;26<3;5 =32=3 &'8:3 ? <4, 3 :;4 C332 92;43 8 '=9H2 ;'<3=9H2;89 2 T ?98:' ;' 9=8 5 53B35534 ;8 :9= :3;4 A ;= ;' 53;492H ;<89D53 92 8:3 ' 4@56 =38 & <8:, @D:' ;' 4 D@7328 ?;= &'D @<=3 ? <8:' 2 8:92HK 8:3<3& <3 :;<53= ?;= =8955 092H &' ;92 ';24 7 9H:8 =9H2

' =D 9J@9R ', I M, B3<6 =8@4328 &' ; 53 2 =:@54 <3;4 8:3 ?: 53 &' 8:3 ? 243<&@5 49;5 3 C38?332.8:3 7 3< <;24 8:3 ;2 2 &' 534 , * ; 53 2 8 ';5536<;24 ;6 N ' M#M,

M##M] 0 %' ' ' ' I

8:;8' =@<<3243<' &' :9=' <9H:8=' ?:9D:' 3<492;24' 432934,' ; 53 2'
< 7 856' =328' & <' 8:3' 54' >92H' ;24' J@332' ?:' ;<<9B34' @243<
;' <32D:' 3=D <8' 2' <95' I#' 832' 4;6=' ;&83<' 8:39<' =42A=' D; 89B986'
C3H;2,' 8' ;6 223' 8:36' <3X 9234' 8:39<' 43;<56.5 B34' % 4 6'
?: 7' @<;8' :;4' 9DG8 <834' &9A 7' 8:3' -@28;' &' 3H32D6' @243<'
D B3<' &';' D 2=328' =328' C6' 3<492;24' 8' ; 53 2' &< 7' /988 <9;'
8?' 4;6=' C3& <3' :3' D< ==34' 8:3' &< 2893<,

:;<53=' /' ;<<9B34' 92' ;' =8;83' &' 5;D:<67 =3' D 55; =3' =;2>' 2'
; 53 2A=' C<3;=8' ;24' D;5534' :97' :9=' 8<@3' &<9324' ;24' :9=' 256'
=@ <8,' T' '<3;556' 4' 2 8' >2 ?' ?:38:3<' 98' 9=' :9=' =989 2' <8:3'
D9<D@7=8;2D3=' C@8' :3' 5 >=' 59>3' ;' H 4' : 23=8' 54' 7;2A' D 7V
7 32834' 8:3' 7 3< <,' T' :3' U@332' :;=' :3<' ;=8' ?<98832' 2' :3<'
&;D3 8:;8' 9=' 32 @H:' 8' 43&923' :3<,' =' 8' 8:3' <92D3' &' 8:3'
3;D3':3'5 >34'59>3';' ;' <9R3' C@55' ?98:';'4;=:' &' @28' ;<@';C @8'
:97,A' % 4 6' ;24' 8:3' U@332' :;4' 256' 23' 8: @H:8' 8' ;B32H3'
8:37=35B3=' 2' 3<492;24K' ;&83<' ?:;8' :;4' 8;>32' 5;D3' 8:36' D @54'
23B3<' H' C;D>' 8' <@53' 92' ;92' =' 8:36' D;<34' 598853' ?:;8' :; 3234'
8' 8:3' D @28<6,' =' 8' 8:3' 092H' :9=' ?9&3';24' :9=' &;B @<983' @5534'
8:3' =8<92H=' ;24' :3' H3=89D@5;834' 92' 8:3' &;=:9 2' 8:;8' 8:36' 43=9<34,'
:3' 7 3< <' 8<3;834' 8:37' ?98:' ;2' =8328;89 @=' 598323==' ?:9D:'
:3' :;4' ;5?;6=' <3&@=34' 8' 8:3' 23?' >92HK' ;8' 8:3' &9<=8' C;2J@38' 8:;8'
:3' H;B3' 8:37' DD@<<34' 8:3' ;C=@<4' =D323' 0;5<3;46' 7 3289 234' C6' @=P'
92' ?:9D:' :;<53=' <3&@=34' 8' =98' 4 ?2' 8' 8;C53' 89' % 4 6' :;4' C332'
& @24' ;24' @8' 23;<' :97,

? ' 4;6=' ;&83<' 8:39<' ;<<9B;5' ; 53 2' D 7 3534' 3<492;24' 8'
; 3;<' C3& <3' :9=' ;<328=K' :3' :97=35&' ?;=' ;5=' <3=328,' :3'
9283<B93?' D 7 7 32D34' C6' 092H' :;<53=' <43<92H' :9=' = 2' 8' =9H2'
;' D 7 5383' ;24' ;C= 5@83' <32@2D9;89 2' &' 8:3' ;29=:' 8:< 23,'
2; ;<83' 8:32' 8:<3?' 92' ;' &3?' 8:<3;83292H' ? <4=K' C@8' 3<492;24'
=8955' @27 B34' 7;43' ;' =83;46' <3&@=;5, 8' 8:9=' 8:3' 54' >92H' < =3'
&< 7' :9=' D:;9< :3' ?;=' :;5&.D<9 534' ?98:' <:3@7;89=7 ;24' 8<934'
8' =8<9>3' :9=' = 2' ?98:' :9=' D;23' ?:953' 8:3' U@332' C@<=8' 92' ?98:'
;' =8<3;7' &';C@=3' ? <8:6' &';' &9=:?9&3, ; 53 2' : <<9&934' ;8'
8:3' 49 @=' =D323' ;DD <492H' 8' :9=' ?2' 2;<<;89B3' &' 98' :@<<934'
3<492;24' T' ?:5 >34' =D;<34A' @8' &' 8:3' 9< 7,

:3' =;73' 29H:8' W ;6']' 3<492;24A=' ;4B9=3<=' C38: @H:8' 8:37'
&';' 23?';24' 92H329 @=' 7 B3 ?3 2334' 2 8' ;=D<9C3' 98' 8' :9=' ?2

)' &' 8:9=' 9283<B93?' ?3' :;B3' 8:3' B3<=9 2' & ; 53 2' :97=35&' 92' ;' 49= ;8D:'
8' @<;8' 4;834' ;6' S' ;2 8:3<' C6' 3B;55 =' 3<492;24A=' 7929=83<' S' ;' 8599<4'
C6' 3' <;48' 0;&83<?;<4=' <D:C9=:' &' 3D:592P' 8:32' <3=328' ;8' ;6 223,

=:;55 C3 8<3;834 ;= D<97 92;5= H@9586 &D 2= 9<;D6, 243< =@D: D9<D@7=8;2D3= 7;>3 8:3 <32@2D9;89 2 ?:9D: 6 @< 7;X3=86 D 7V 7;24= 8:;8 8:3 H B3<2 7 328 &;92 7;6 <38@<2 8 8:3 D 2V 4989 2 92 B:9D: 98 ?;= 2 ;<D: "5;=8 8:3 4;6 2 ?:9D: 6 95< 7;X3=86 ! "5;94 4 ?2 6 @< D< ?2 92 76 &;B @< W ;6],

3<492;24 :;B92H ;C49D;834 ; 53 2 ;8 2D3 < 4@D34 ;8<3;86 ?:9D: 092H :;<53= :;4 <;89&934 2 8:3 <3B9 @=4;6 8?3286.& @< :@<= C3& <3 :9= = 2 H;B392, 6 98 8:3 54 7;2 <3=9H234 ;55 :9= <9H:8= 8 8:3 8:< 23 &;92 ;24 8:3 2493= 8 8:3 7 3< < ; 53 2 8:3 256 3<= 2 ?: 92 8:3\ <3=328 =8;83 &;&&;9<= D;2 <3.3=8;C59=: <43<,A 3 256 ;223G34 8? D 24989 2=K T O P 8:;8 8:3<3 =: @54 C3 2 ;<8989 2 &8:3 ;29=: 7 2;<D:6 0$P8:;8 8:3 7;2 ;8: 59D <359H9 2 =: @54 C3 8:3 256 23 <3D H29R34 92 ;92K 8:3<3 =: @54 ;DD <492H 8 8:3 3G9=892H <;D89D3 C3 2 8 53<;89 2 & <;26 &8:3 <3& <734 <359H9 2=7 @D:53== & <92&9435=,A &;268:92H 9= ?;2892H 8 7;>3 8:3 =9556 54 7;2 49 @= 98 9= 8:3 &92;5 8 @D: &C9H 8<692 :9=;C49D;89 2, :3<3=8 &8:3 4 D@7328 D 2=9=8= &;<3D98;5 &8:3 32=9 2=;243=8;83=92 <;2D3 D 2&39<34 C6 8:3 7 3< < 2 :9=4@ 3 92 <38@<2 & <8:3 ;C49D;89 2, 8 8 > &9B3 4;6= 7 <3 8 3G8 <8 &9A 7 2 3<492;24 ;& <7;5D3==9 2 &:9= @5897;83 <9H:8= ;= <92D3 &8:3 =8@<9;=8 8:3 =@DD3==9 2 8 8:3 8:< 23, 8 ?;= =9H234 2 ;6 # ;24 @< <834 8 H9B3 :97 92 <38@<2 ; ;5;D3 92 <;2D3 ;24 ;5;<H3 ;22@;5<3B32@3, @8 :3 ?;= <3;556 @8 @243< D5 =3 =@<B3955;2D3 ;8 ;5536<;24A= 3=8;83 &/;532 ;6 2H ?98:9= C< 8:3< 2 ;<5 = ;24 23B3< ;55 ?34 8 H C36 24 98= C @24=, :3 7 3< <A= 53883< &92=8<@D89 2= 8 ;5536<;24 9= ? <8:J@ 892H & <98= DX79D;5 C<@8;5986, 3 ?< 83 8 :9= 3G.7929=83<? : ? ;= 7@D: 49=H@=834 ?98:8:3 92B949 @= 4@86 @8 @ 2 :97K T 38 8:3 <92D3= C3 <3D39B34 ?98: @8 ;26 =: ? C@8 638,<3= 3D8;C56 ;24 8<66 8 >33 8:37 ;7@=34, &6 @ D:;2D3 8 :;B3 ;8:3;8<3 ;8 /;532 ;6 8:3<3 ? @54 C3 2 :;<7 92 97 <892H = 73 ;D8 <= 2 ?;24 8:32, @ 7;6 C<92H B3< 73 43 ;5536<;24 W8:3 2 8 <9 @= 73 %<;24 & M##] ;24 & @< <&9B3 5;493= 92 ;88324;2D3 2 C3<, &8:3 <92D3 =: @54 &;55 92 5 B3 ?98: = 73 <3886 H9<5 ;7 2H 8993 7 8:3<3 ? @54 C3 2 :;<7 92 98 3= 3D9;556 9& 6 @ ;<3 J@983 =9@3 &:3<, :3 <92D3 7@=8 2 8 C3 ;55 ?34 8 8;>3 ;26 &;5=3 =83 C@8 7@=8 C3 ;7@=34 ;24 DD@ 934, @H:8 & <5989D;5 =;&386 8 @8 :97 92 98D:3 <3&9 324 B 9, L#N LN ,

M##M] 0 / "

H<; 3.=: 8 32 @H:' 8 =;89=&6 C 8:' 7 3< < ;24 %<;24. @>3,' :36 < C;C56:;4 8:3 <3B 58 &' ;9< ';24 8:3 I8:' /3243 7 9;9<3 92 8:39< 7 924';24 ?3<3 C 8:' @243<8:3 97 <3==9 2 8:;8 ;' H 4' 98953==56 D<@=:34 C6';<89553<6 ?;= 8:3 C3=8 C;=9= &';'23?' <3H9 7 3,

2 8:3 29H:8 &' <95 $"' 8:3 &9<=8 D53;< ;24 ;DD@<;83 ;DD @28 ' & ?:;8 ?;= :; 3292H ;8 ;6 223 ;2A9B34 ;8 ;4<94,' ; 53 2 :;4 9283<D3 834 ;55 8:3 53883<= ?:9D:' 2 3<492;24 :;4 8<934 8 ' =7 @HH53 @8 &' :9= <9= 2,' 3 <3;4 8:37 ' ?98:' H<;B3 49=; < B;5 & < :9= H@3=8 :;4 2 8 =D<@ 534 8 ' @=3 8:3 3G <3=V =9 2 T8:3 D@<=34 <32D:A ;24 :;4 :92834 ;8 8:3 < <9386 & <3=9=8;2D3,' ; 3 :;4 2 8 638 C332 D ?34 C6 8:3 8:<3;8 &';'<3C35A= 43;8:,' @8 2 8:3 8?3286.8:9<4 23 &'8:3 ;29;<4=;8 ;6 223 =@DD33434 92 3=D; 92H 92 49=H@9=3 D< ==34 8:3 7 9 7 8;92=)C6';5 2356 8<;D> ';24 <3;D:34 ;7 35@2;' ?:32D3:3 =834 8 ' ;4<94 :9= ?;= ;' D3<8;92 ;B;<<3=3 7 ;H9=8<;83 2;7 34 C;<2;B;<< ' 8 ' ?: 7 3<492;24 :;4 H9B32 ;' B3<C;5 7 3==;H3 8 ' 3G 5;92 ; 53 2A= 5;2= ;24 D 24@D8 8 ' 8:3 -@28;' ;24 8 ' 92& <7 ' 8:37 ' 8:;8 :3 ? @54 23B3< H9B3 92 8 ' 8:9= B953 7 9G8@<3 &' & <D3;24 &<;@4,' 3 D @54 2 8 =324 8:37 ';26 43&9283 92=8<@D89 2=' 2 8 >2 ?92H 8:3 3G;D8 =8;83 &';&&;9<= ;8 ;49*94 ';24 ;' <37;87.3 =8< >3 7 9H:8 9 7 3<95 8:3 59&3 &':9 7 =35& ' :9= C< 8:3<' ;24 :9= D 7 ;29 2=K 538 8:37 ' C3?;<3 8:3<3& S<3 & =: ?92H 8:39<' ?;9.59>3 9283289 2= 8955 <3 ;<;89 2= :;4 C332 &@556 7;43 8 ' =:;>3 &&'8:3 6 >3 &'8:3 <3== <,

:9= 73==;H3 C;<2;B;<< ' 4359B3<34 2 8:3 29H:8 &' <95 $". ' 8 ' 8:3 -@28;' ? : ' :;4 =@7 7 234 92 8 ' :3;< 98 ;' 2@7 C3< &'X@4H3= ;24 8:3< 7;H2;83= &' 8:3 D986,' 3G8 7 <292H ' &' D @<=3 8:3 92& <7;89 2 ' 92 ;' 7 <3 < 53== H;<C534 =:; 3 ' = <3;4 ;55 < @24 ;4<94K 8:3<3 ?3<3 & 59=:' <@7 @<= 8:;8 8:3 9=D;6;2= :;4 ;5<3;46 8;>32 ;<7=' ;24 8:;8 I# ### &' 8:37 ' ?3<3 7;<D:92H 2 ;6 223 8 ' =;B3 8:3 092H ';= ;5= ' 8:;8 D3<8;92 &' 8:3 D ;=8 8 ?2= :;4 92B9834 8:3 2HC=:' 8 ' 5;24,' 2 8:3 8:9<8938:' 53;&538=' C 8:' ?<98832 ;24 <92834 ' ?3<3 C392H =3D<3856 D9<D@5;834 < @24 8:3 D986 ' =38892H & <8:' 8:3 @2:; 6 D 24989 2 &' 8:3 092H ' ;24 C94492H :9= =@CX3D8= 2 8 8 ' & <H38 @7;2D9;' 8 9= ;=8 29=:92H 8:;8 <9 8= 494

' C;7;B;<< A= =8 <6 ' ?<98832 4 ?2 C6 :97=35& 2 3 837C3< $ ' M##M ' D;2 C3 & @24 <92834 92 &@55 2 ;' L ."' &' 8:3 3249G 8 ' <3&9 A= &9<=8 B 5@73,

' <;'= 3D9732 =33 8:3 4 D@7328 2 ;' LN$ &' @28 @<;8A= ' '

) ! '0 ;<9=' M" P,

;' 43D<33' 9==@34' C6' :;<53=' /' 8:32' ;==@734' 8:3' <3=9432D6' &' 8:3' -@28;' &' 3H32D6,' :3' <3=8' &' 8:3' 737C3<=' &' 8:;8' 9H2 C53' C 46' 3;=956'=;2>' 928' :9=' =3<B953' 92=8<@7328=' 8: @H:' 8:36' :;4';8' 5;=8' <3D39B34';' =3D<38' 2 83'=7@HH534' @8' &< 7' ;6 223' 92'.?:9D:' 3<492;24' 08:3' 4;6' C3& <3':9=';C49D;89 2P8 54' 8:37' 8' <3H;<4' :9=' <37 B;5 928' 8:3' 9283<9 <' &' <;2D3';=';' 43D5;<;89 2' &'?;<';24' 8' f955' 8:3' 2;89 2' 8' ;<7=,' ' 8:9=' 8:36' ;94' 2' ;8832 89 2' ?:953' 8:36' <3832434' 8' 8;>3' 8:3' 4 D@7328' &' <3=9H2;89 2' ?:9D:' 2;V ;<83' :;4' & <D34' :97' 8' =9H2' ;=' ;2' ;@8:3289D' ;24' = 28;23 @=' 3G <3==9 2' &' :9=' ?955,' :3' &;D8' 9=' 8:;8' 8?3286' 63;<=' &' % 4 6' :;4' 8: < @H:56' 437 <;59R34' 8:3' C@<3;@D<;D6' ;24' 8:3' D @<8' &' ;92K' 9&' 8:3' D @28<6A=' ?9' :;4' 2 8' & @24' C3883<' 3G 2328=' 8:;2' :3<' 7929=83<=' ;24' &&9D9;5='; 53 2' 79H:8' :;B3' 4 23' ?:;8' :3' 53;=34' ?98:' 8:3' 3292=@5;,

8' <3=328' :9=' = 53' 9283<3=8' =337=' 8' :;B3' 5;92' 92' =388592H' 8:3' 438;95=' &' :9=' C< 8:3<' - =3 :A=' 353D89 2' 8' 8:3' ;29=:' 8:< 23,' 3<492;24A=' &92;5 <3=9H2;89 2' &' ;55' :9=' <9H:8=' :;B92H' C332' =9H234' 2' ;6' #' 8:3' &9354' ?;=' 32' & <' :9=' =@DD3== <,' :3' 7 3< <' 8: @H:8' 8:;8' = 73' = <8' &' 43 @8;89 2' 8' <3 <3=328' 8:3' ;29=:' 2;89 2' @H:8' 8' C3' H 8' 8 H38:3<' 92' <43<' 8:;8' :9=' C< 8:3<' 79H:8' 2 8' =337' 8' <3D39B3' 8:3' D< ?2' &< 7' :9=' ?2' :;24=' 256,' 9@.;8' ?;=' &9<=8' =38' 8' ? <>' 8' 83<< <9R3' 8:3' -@28;' &' 3H32D6' ;24' 8:3' T' 97 D95' &' 39=8953 A' ;' C 46' ?:9D:' <;D89D;556' DD@ 934' 7@D:' 8:3' =;73' =989 2' ;=' 8:3' 2H59=:' <9B6' @2D95,') 8' :9=' 49D8;89 2' 8:3' -@28;' 6935434' C@8' ?98:' ;2' 955' H<;D3' ;24' =328' 38989 2=' 8' ;6 223' ;=>92H' & <' ;' 23?' 7 2;<D:' ;24' =@HH3=892H' 0;=' 43=9<34P' 8:;8' 8:3' 3<= 2*' D:=32' 79H:8' C3' - =3 :' 2; ;<83' 092H' & ; 53=' W ;6' I],' @<;8' :;4' X@=8' C332' 92& <734' 8:;8' ;=' ;55' :;4' H 23' ?355' ?98:' 8:3' 7 3< <A=' 5;2=' :3'=: @54' :;B3' :9=' <3?;<4,.' :3' 79H:8' 7;>3' :9=' D: 9D3' C38?332' 8:3' 8:< 23=' &' ; 53=' ;24' &' <8@H;5,' 3' ?9=356' D: =3' 8:3' & <73<' ?:3<3' 8:3' < @H:' ? <>' &' =@CX3D89 2' :;4';5<3;46' C332' 4 23' C6' :9=' <343D3== <,

@8' <3= 5B34' 8' H38' 8 H38:3<' = 738:92H' 59>3' ;' <3 <3=328;89B3' C 46' ?:9D:' 79H:8' B 83' ;?;6' 8:3' 59C3<86' &' ;92' ; 53 2' 2 792;834' 92' 8:3' ;4<94' %;R3883' &' ;6' $L' #' 3<= 2=' ?:' ?3<3' 8' H' 8' ;6 223';24' 8:3<3';=>:97' 8' H<;28' 8:37';' >92H,' 3' 2;734';' 7 =8' 79=D355;23 @=' D< ?4 7929=83<=' C9=: =' X@4H3=' 7@29D9 ;5' &&9D3<=' &' ;4<94' 4@>3=';24' D @28=' 8:3':3;4=' &' 8:3' <359H9 @=' <43<=' 8:3' %<;24' 2J@9=98 <';24' = 73' &' :9=' D 553;H@3=';24' =9G' ?355.>2 ?2' 73<9D;2=' ?:' ?3<3' 8' = 3;>' & <' 8:3' D 5 293=,' ' 8:3' 383<2;5' 49=H<;D3' &

?H! " K $ " " $ E# <H

8:3 <@592H D5;==3= & ;92 2 53==8:;2 292386. 23 &8:3 2 79233= ?3<3 C;=3 32 @H: 8 C36 8:3 <43<= H9B32 8:37 8 H 8 ;6 223 ;24 8:3<3 8 D<;B3 ;= ; C 2 8:;8 8:3 ?3;> ;24 92D 7 38328 - =3 : 2; ;<83 79H:8 C3 =38 8 H B3<2 8:39<@2:; 6 D @28<6 @243<8:3 ;@= 9D3= &9=C< 8:3<8:3 :3< ;24 <3H323<;8 <, 2H C3& <3 8:3 43H<;492H &;<D3 ?;= D 7 5383 8:3 ?: 53 D @28<6 ?;=92 ;<7= C3:924 8:37 ;24 8:36 >23? 8:37=35B3= & <8<;98 <=, :3 353D89 : &0 92H - =3 : ? ;= 256 8;>32 92 :;24 2 -@23 ?:953 8?3286 4;6= C3& <3 8:3 2 <8: ;24 = @8: & ;92 :;4 <9=32 92 ;<7=92 8:3 2;73 &8:3 D; 89B3 3<492;24 / ,

8 8 > ;? 33> & <8:3 23?= &8:3 92=@<<3D89 2 & ;6 $ 8 = <3;4 <@24 ;92K 92 8:3 @C59D 7 @8:98 &D @<=3 ;==@7 34 8:3 =:; 3 &;7 ;==;D<3 43:C3<;8356 5;2234 C6 @<;8, 8 ?;= 2 8 8955 = 73 4;6= 5;83< 8:;8 8:3 &945 438;95= &8:3 3B328= ;8 ;6 223 H 8 ;C< ;4, @8 3B3<=92D3 8:3 =@< <9=3 &8:3 &< 2893 & <8<3==3= 92 3C<@;<6 ;24 ;<D:92 83559H328 732 ;55 B3<8:3 D @28<6 :;4 C332 =@= 3D892H 8:;8 = 73 H< ==;D8 &8<3;D:3<6 ?;= 59>356 8 C3 8:3 @8D 73 &8:3 <32D:92B;=9 2, 38 92 7 =8 &8:349=8<9D8= & ;92 8:3<3 ?;=;H; &= 73 4;6= C38?332 8:3 ;<<9B;5 &8:3 23?= &8:3 092HA= D; 89B986 ;24 8:3 &9<=8 @8C<3;5X & @5;< 9249H2;89 2, :3 &;D8 ?;= 8:;8 8:3 3 53 ?3<3 ?;9892H & <8:3 5;?&@5 ;24 D 2=898@834 ;@8: <9893= 8 8;>3 ;D89 2 ;24 494 2 8 7 B3 &8:37=35B3= 8955 98 ?;= D3<8;92 8:;8 2 92989;89B3 ?;= 8 C3 3G 3D834 &< 7 8: =3 92 :9H: 5;D3=, @8 ;92 ?;= ;D @28<6 ?:9D: :;4 5 2H C332 H B3<234 2 43= 89D 5923=$;24 98= &&9D9;5 D:93&= ?:38:3<8:3 2 79233= &% 4 6 < &8:3 >2 8 &928<9H@3<= ?: : :;4 X@=8 ? 2 8:39< ?;6 8 ?3< @243< 3<492;24 ?3<3 2 8 8:3 732 8 53;4 ;? ;< &2;89 2;5 9243 32432D3, ;26 ?3<3 73<3 ;4B328@<3<= ?: : :;4 <9=32 8 <3&3<7328 C6 &5;883<92H 8:3 5;83 &;B @<983, 8:3<=?3<3 86 9D;5 C@<3;@D<;8=?: =3 256 D 2D3<2 ?;=8 ;DD3 8 ;= 53H9897;83 ?: :;83B3< <43<= <3;D:34 8:37 &< 7 ;4<94 < B9434 8: =3 <43<= ?3<3 D @D:34 92 8:3 < 3< & <7 ;24 ?<98832 2 8:3 <9H:8 ; 3<8:36 494 2 8 5 >8 =33 ?:38:3< 8:3 =9H2;8@<3 ;8 8:3 C 88 7 ?;=8:;8 %4 6 < &8:3 2&;283 2 28 29 < & @<;8, 8:3<= ;H;92 ?3<3 D @<893<= ?: ?34 8:39< =989 2 8 8:39< H<3;8 2;73= ;24 2 8 8 .;26 3<= 2;5 ;C95986, 8 9= 8:9= &;D8 8:;8 ;DD @28= & <8:3 & <829H:8 < 3B32 8:<33 ?33>= &8 < < 8:;8 & 55 ?34 8:3 3B328= &8:3 =3D 24 ;24 =9G8: & ;6, @<;8A= <43<= 4@<92H 8:;8 = ;D3 8<;B3553 4 B3<8:3 D @28<6 ;24 7 =8 &8:3 D; 8;92=.H323<;5 ;24 8:3< ;@8: <9893=

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=33 7 34' 92D59234' 8 ' C36' 8 : 3 7 ,' 38' 8 : 36' ? 3<3' <439.=' ? : 94 :' = : @54' : ; B3' =89<<34' @ ' 92=8 ; 28' 49= C34932D35' 8 : 3' 34983<< ; 23 ; 2' =J@ ; 4< 2' ? ;=' 8 ' C3' =328' 8 ' @5 2 ' ? : 3<3' 09&' 98' 494' 2 8' H38' 8 ; >32' 2' 8 : 3' ? ; 6' C6' 8 : 3' <989= : P' 98' ? @54' & ; 55' 928 ' 8 : 3' : ; 24=' &' ; 53 2,' ' 5 ; <H3' 438 ; D : 7 328' &' 8 : 3' 43 53834' <3H@5 ; <' ; < 7 6' ? ;=' 8 ' =; 95' & <' @32 =' 6<3=' ? 98 :' 8 : 3' < C ; C53' < = 3D8' &' &92492H' 98=35&' 3<3' 5 2H' 2' 8 : 3' . : @5>=' ; 8' <8=7 @8 : ' 92=83 ; 4' &' 2' 8 : 3' =: <3=' &' 8 : 3) 9 ' 43' 5 ;' 5 ; 8 ; ,' : 3' ?9==' <3H9 7 328=' 92' ; 29=:' ; 6' ?3<3' 49<3D834' 8 ' C3' 8<; 2=&3<<34' 8 ' 8 : 3' <32D :' 3=8 ; C59=: 7 328' ; 24' 8 ' 8 ; >3' 8 : 3' ; 8 :' 8 ' ; 53 2,' 55' 8 : 9=' D @54' : ; B3' 2 ' CX3D8' =; B3' 8 : ; 8' &' 49 7 929=: 92H' 8 : 3' &9H : 892H' ? 3<' &' 8 : 3' D @28<6,

: 3' &9<=8' < B92D3' ? : 3<3' 8 : 3' 3 53' 5@D>34' @ ' D @<; H3' 8 ' ; D8' ? 98 : @8' 8 : 39<' &&9D9 ; 5=' ; 24' 8 ' 43D5 ; <3' ? ;<' 2' <; 2D3' 92' = 983' &' 8 : 3' 4<3 ; 4&@5' 44=' ; H ; 92=8' 8 : 37 ' ? ;=' 8 : 3' <37 83' ; 24' 92 ; DD3==9C53' <92D9 ; 5986' &' 8 : 3' =8@<9 ; =' <3==34' 92' C38? 332' 8 : 3' ; 6' &' 9=D ; 6' ; 24' 8 : 3' ; 28 ; C<9 ; 2' : 955=,' 9 8=' C3H ; 2' ; 8' 98=' D ; 98 ; 5' B934 ' ;=' 3 ; <56' ;=' 8 : 3' &9<=8' ; <<9B ; 5' &' 8 : 3' 23?=&< 7' ; 4<94' 2' ; 6' " ' ? : 32' @<; 8A=' 349D8=' ? 3<3' 8 <2' 4 ? 2' 92' = 983' &' 8 : 3' &33C53' <3=9=8 ; 2D3' &' 8 : 3' D 7 7 ; 243<' &' 8 : 3' H ; <<9= 2' ; 24' = 73' &' 8 : 3' 7 ; H9=8<; 83=,' : 3' =8@<9 ; =' ? ;=' 23' &' 8 : 3' &3?' < B92D3=' &' ; 92' ? : 9D :' =89 ' <3=3<B34' B3=89H3=' &' 98=' 7 349 ; 3B ; 5' <3 <3=328 ; 89B3' 92=898@89 2=,' 8' : ; 4' ;' T' - @28 ;' % 3239) ; 5 A' ;' >924' &' 5 D ; 5' T' 3=8 ; 83= A' ? : 9D :' D : ; 2D34' 8 ' C3' 92' =3==9 2' ; 8' 8 : 3' 89 7 3' &' 8 : 3' D<9=9=,' 392H' D 7 =34' &' 5 D ; 5' 7 ; HV 2 ; 83=' ; 24' D989R32=' ; 24,2 8' &' &&9D9 ; 5=' ; 24' C@<3 ; @D<; 8=' 8 : 9=' C 46' ? ;=' =@&&9D93285 6' 92' 8 @D :' ? 98 :' @C59D' 929 2' 8 ' &335' 98=35&' C <23' 2' 8 ' ; D89 2,' &83<' 832' 4 ; 6=' &' =3D<38' <3 ; <; 89 2' 8 : 3' D986' &' B934 ' ; 24' 8 : 3' =@<< @2492H' D @28<6.=943' < =3' 92' @29= 2' 2' ; 6' $L' 8 : 3' ; <89=; 2=' &' 8 : 3' 23?' H B3<2 7 328' ?3<3' 97 <9= 234' ; 24' 23G8' 4 ; 6' 8 : 83' 3=8 ; 83=' & < 7 ; 556' 43D5 ; <34' ? ;<' 2' ; 53 2' 2 ; ; <83' ; 24' <43<34' ;' 53B6' &' M ### 7 32' &< 7' 8 : 3' <92D9 ; 5986' 8 ' <3=9=8' 92.A' B ; =9 2,' ' H<3 ; 8' ; <8' &' 8 : 3' D<3498' & <' 8 : 9=' 4 ; <92H' 7 B3' 7 @=8' C3' H9B32' 8 ' 8 : 3' <3=94328' &' 8 : 3' - @28 ; ' 8 : 3' ; <J@9=' &' ; 28 ;' <@R ' ? : ' : ; 4' =89<<34' @ ' : 9=' D 553 ; H@3=' ;=' 3 ; <56' ;=' 8 : 3' 8 : 9943328 :' C6' 43D5 ; <92H' 8 : ; 8' T' ? : 32' ; 24' ? : 3<3B3<' 23' =92H53' ; 29 ; <4' 8 >' ; < 7 =' ; H ; 92=8' ; 53 2' : 3' ? @54' = : @543<' ;' 7 @=>38' ; 24' @8' : 97 =35&' 8' 8 : ; 8' 7 ; 2A=' =943,A' : 3' =8@<9 ; 2=' : ; 4' 2 ' >2 ?534H3' 8 : ; 8' 8 : 3<' < B92D3=' ? 944' & 55 ?' 8 : 39<' 3G ; 7 53$' 8 : 3<3' ? ;=' 256' 23' C ; 88 ; 59 2.' &' <3H@5 ; <' 8< =' ; 24' 23' &' 7 95989 ;' @243<' ; <7=' 92' 8 : 3' < B92D3$' 98=' &92 ; 2D9 ; 5' <3= 97D3=' ?3<3' = 7 ; 55,' 8=' 256' =8<32H8 :' 5 ; 6' 92' 8 : 3' < @H :' 7 @28 ; 92=' 8 : ; 8' : ; 4' 2D3' = : 3583<34' 092H' 35 ; 6' &< 7' 8 : 3

5 D;5 7 ;H2;83= 2 8 ;D8@;556 : 5492H &&9D3 59>3 8593 D353C<;834 - =3 : ;5;& G ;8 :<;H ==; < 437;H H@3= &8:3 =8<338= < 0C@8 53==&<3J@32856 8:;2 79H:8 :;B3 C332 3G 3D834P D:@<D:7 32, ; 53 2 ?;= J@983 B< 2H ?:32 :3 D;5534 8:3 ;29=: <9=92H T;2 92=@2A3D89 2 &7 2>=,A :3 D:@<D: & 55 ?34 8:3 2;89 2 ;24 2 8 8:3 2;89 2 8:3 D:@<D:K 924334 7;26 &8:3 = 9<98@;5 :93<;<D:6 ?3<3 ;7 2H 8:3 7 =8 =3<B953 92=89A@7328= &@<;8, 7 2H 8:37 ?;= 8:3 <97;83 &;92 8:3 <D:C9=: &534 ?: ?;= ;D8@;556 ;=D9 2 &8:3 : @=3 &@9AC 2, :3<3 ?3<3 7;26 3DD53=9;=89D= ;7 2H 8:3 49=: 2 9@<34 292386. 23 8:;8 ?328 8 ;6 223 9&8:3<3 ?3<3 8:3<= ?: 059>3 8:3 9=: &;28;243<P @8 8:37 =35B3= ;8 8:3 :3;4 &8:39< &5 D>= ?:32 8:3 D @28<6 8 >;<7=,

8 ?;= ;H<3;8 79=& <8@23 & < ;92 8:;8 8:3 X@28;= ?:9D: ?3<3 3B3<6?:3<3 & <734 ?:32 8:3 3 53 < =3 : ;4 8 C3 D 7 =34 92 5;<H3 ;<8 &7 32 @2;DJ@;92834 ?98: H B3<27328 ;24 <H;29R;89 2, :3<3 ?3<3 7;26 9283559H328 ;8<9 8= ;7 2H 8:39< 7 37 C3<= ;D3<8;92 2@7C3< &)=8;83=7 32 ?: ;4 C332 >3 8 4 ?2 < 49=H<;D34 C6 % 4 6 C@8 ;5= ;5;<H3 < <89 2 &;7C989 @= ?924C;H= ;24 =35&.=33>92H 928<9H@3<=, 8 ?;= :;<4 D 2=898@83 ;D;C53 H B3<2V 7328 2 8:3 = @< &8:3 7 7328 92 ;D @28<6 ?:9D: ;4 =@&&3<34 8?3286 63;<= &% 4 6A= <@53,

2 @2& <8@2;83 &3;8@<3 &8:3 <9=92H ?;= 8:;892 7 =8 &8:3 < B92D3= ;24 3= 3D9;556 8: =3 &8:3 = @8: 98 8 >&< 7 8:3 &9<=8 ;B3<6 =;2H@92;<6 D;=8, 8 ?;= 2;8@<;5 8:;8 8:3 3 53 =: @54 =XB33 ;?;6 92 8:39< ;2H3< 3B3<6 &&9D9;5 ?: 8<934 8 >33 <8:37 4 ?2 <:3=98;834 D 7 7 98 :97 =35& 8 8:3 =8<@HH53 ?98: <;2D3, @8 8:3<3 ?*9= 2 <3;= 2 8 7@<43<8:3=3 ?3;>592H= <8<;98 <= 92 8:3 =8653 &8:3 -;D C92=, :3<3 ?;= ;83<<9C53 ;7 @28 &;==;==92;V 89 2 @C59D ;24 <9B;83 4@<92H 8:3 &9<=8 4;6= &8:3 92=@<<3D89 2,* :<33 D; 8;92=.H323<;5 ?3<3 =5;92 @243< D9<D@7=8;2D3= &C<@8;5 D<@3586 95;2H:93<9 92 %;59D9; <<3 435 <3=2 92 =8<37;4@<; 5;2 ;8 ;49R, :3&;83 & 5;2 7;6=3<B3 ;= ;2 3G;7 53K :3 8<934 8 >33 8:3 8< =& 7 X 9292H 8:3 3 53 ;24 B;9256 :;<;2H@34 8:3 7 CK 92892H 8 8:3 49=8;28 =;95= &8:3 2H59=:C5 D>;492H =J@;4< 2 :3 =: @834 T :3<3 ;<3 6 @< <3;5 3237 93=A @8 :9= ?<4= :;4 2 3&&3D8K :3 ?;= :@2834 4 ?2 92 ;: @=3 ?:3<3 :3 8 J> <3&@H3 ;24 ?;= C392H 4<;HH34 8 C3 :@2H 2 8:3 @C59D H;55 ?= ?:32 8:3 7 24, &;&;2;89D 0 < 3<:; = &;=3D<38 &<9324 ?: ?9=:34 8 = ;<3 :97 ;49=: 2 @<;C53 43;8:P 43;58 :97 ;&;8;5)

"

49<3D89 2=K 924334 8:3 -@28; & 3B9553 :;4 ;==@734 8:3 ;<< H;28 =8653 &T=@ <373 -@<88; & ;92 ;24 8:3 2493=A8 ? :9D:98 :;4 2 53H9897 ;83 89853, :397 <8;2D3 & 24;5@=9; ?;=8:;8 98 ?;= &@55 &8 8< =8:3 <3H@5;<H;7= 2= :;B92H C332X9234 C6 7 =8 &8:3 3G 34989 2;<6 D <= ?:9D: :;4 <38@<234 &< 7 = @8:3<2 <8@H;5, <3 B3<98 ?;=92 ==3==9 2 &;&@55 8<3;=@<6;24 ;&5338;24 :;4&<33D 7 7@29D;89 2?98:8:3 2H59=:;8%9C<;58;<, 2 -@23 8:3 24;5@=9;2=8<@D>8:3 &9<=8 7 9598;<6:5 ?8:;8 8 54 2 ; 53 2 C6C 7C;<492H;24 D; 8@<92H8:3 <32D:&5338 08:3<359D= &<;&;5H;<P?:9D:5;6;8 8:39<7 39)D6B98:92 8:3:;<C @< &;49R,

:3=3D 24 92 97 <8;2D3 &8:3D328<3= &<3=9=8;2D3?;=%;59D9; ?:9D:?;=;5= &;9<56?355 <B9434?98:8< =;24 D 28;9234 8:3;9)=32;5= &3<< 5;24 <@22;, :3<9=92H= 92 =8@<9;=;24 8:3&33C53<H;8:3<92H= &;8<9 8=92 3 2;24 54 ;=8953 <;DV 89D;556 C3D;73 C<;2D:3= &8:3%;59D9;2 92=@<<3D89 2 8: @H:8:36 ?3<3 49<3D834 C6 8:39< ?2 X@28;=;24 8<934 8 ? <>& <8:37=35B3=, 8?;= 2 8:3;<76 &%;59D9;8:;8 8:36 <35934 & <=@ <8;24 ?98: @8 98 8:36 ? @54 2 8:;B3 C332 & <794;C53, :3C @24;<93= &8:9=;<3; &92=@<<3D89 2?3<3 ;28;243< / ;55;4 594 ;24 3H V B9;K &@<8:3<3;=8 8:3 8< = & 2D36;24 3==93<3='92 8:3 49<3D89 2 & @<H =;24 <;24;>3 8 8:3D @28<6.=943 &< 7 <9=92H, :3<3 ?3<3 = <;49D H;8:3<92H= & 3;=;28= 92 8:3 3< C< B;5536 ;24 8:3 7 @28;92= & <8:3<2 ;=8953 C@8 8:3=3 B) 3<3 73<3 @2V <H;29R34 9 .;<734 C;24= 8:;8 ;5& ;C;88;59 2 D @54 49= 3<=3, 8?;= 8:3 =;73 92 8:3 ;=J@3 < B92D3= ;24 ;BA;<<3K :3<3 8 8:3 <32D:5;6D;28 234 = 8:9D>56 8:;8 98 ?;= 97 ==9C53 8 7 34453 ?98:8:37K 8:39< 928= &D 2D328<;89 2?3<3 /988 <9; ;24 8:3 8? & <8<3==3= & ;7 35@2;; 24 ;2 3C;=89;2,

:3 8:3<: <2 &8:3:;5&.7 2 &<3B 58?:9D:32D9<D534 ;4<94 ?;= D 7 =34 &8:3 92=7*<3D89 2= 92 @<D9 .;24 /;532D9;8 8:3 = @8: ;24 <;H 2 8 8:3 2 <8:; :3=3 <3H9 2= ?3<3 7@D: 53== &;B @<;C56 =98@;834 & <& <7 92H D328<3= &<3=9=8;2D3 C3D;@=3 8:36 ?3<3 B3<6 ?3;> 92 <H;29R34 8< =, / :32 8:3 <;H 23=3 353D834 - =3 : ;5;& G ;= 8:39< D; 8;92.H323<;5 ;24 43D5;<34 ?;< 2 <;2D3 8:3<3 ?3<3 256 $ ###<3H@5;<= ;24 23 C;883<6 &;<89553<6 92 8:39< <3;57, :3 53B93= ?:9D: 8:36 C3H;2 8 <;9=3 ?3<3 2 8:92H 7 <3 8:;2 :;5&.;<734 3;=;28= ?98: 2 ;43J@;83 C 46 & &&9D3<= 8 8<;92 ;24 4<955 8:37, / ;532D9;;24 @<D9;?3<3 ;598853 C3883< && C3D;@=3 8:3 ;<=32;5 & ;<8;H32:;24 98= H;<<9= 2 5;6 ?98:92

<3C35=? ?3<3 8 &3?'8 C3 4;2H3< @=C@8 8:3=8< 2H ;29=:;<76 &%;59D9;? ;=)?355 5;D34 &<;C5 ?;8 @<H =;24 ;=@DD3==&@5 ;88;D> 92 8:;8 49<3D89 2 ? @54 D@8 &&;4<94 &< 7 <;2D3;24 53;B3 8:3 8< =92;24;C @8 8:3 D; 98;5 ?: &<7348:3 928 &8:3 928<@=9B3 ?34H3 92;B396 3<95 @=D 24989 2, :9=9=8:3 <3;= 2 ?:6 92 8:3 &9<=8=8;H3 &8:3 ?;< ; 53 2=: ?34 H<3;8 ;2G9386 ;=8 ?:;8 8:3 ;<76 &%;59D9;7 9H:8 4 ?:953 < &3==92H D 7 ;<;89B3 3J@;297986;C @8 8:3 < D33492H= &8:3 8:3<& 8D3= &8:3 92=@<<3D89 2,

;B92H 8:@= =>38D:34 8:3 =8<;83H9D =989 2 &;&&;9<= 92 8:3 3292=@5;4@<92H 8:3 &9<=8 4;6= &-@23 ?3 7@=8 =38 @<=35B3= 8 53;<2 8:3 7;92 D:;<;D83<9=89D= &8:3 7 9598;<6 H3 H<; :6 &;92;24 8 3=897;83 8:3 D:;<;D83< <H;29R;89 2;24 &9H:892H B;5@3 &8:3 8? ;<793= ?:9D:?3<3 X@=8;C @8 8 32H;H3, 98:V @8= 73 >2 ?534H3 &8:3 D 24989 2= &?;<&;<3 92 ;92;;73<3 D;8;5 H@3 &C;8853=;24 7;9D:3= ? @54 C3;C= 5@8356 @=353==,

M M K

% % K

/

7 ;55 8:3 <3H9 2= & @< 3 8:3 C3<9;2 3292=@5; ==3==3= 8:3 C3=8 7 ;<>34 &< 2893<, 8 9= =3 ;<;834 &9A 7 <;2D3 98= 256 239H:C @< C6 23 C< ;4 <;2H3 & 7 @28;92= ? :9D: 43&923= 98= C @24;<93= 3B32 7 <3 D53;<56 8:;2 8:3 5 = 7 ;<> 8: =3 & 8;56, <8:3 5 = ;<3 2 =92H53 D:;92 C@8 ;=6=837 &4 @C53 ;24 8<9 53 D:;92= <@2292H ;<;5535 8 3;D: 8:3< ;24 53;B92H C38?332 8:37 43C;8;C53 5;24= =@D: ;= ;B 6 ;24 8:3 @8:3<2 6< 5, 38?332 ;92 ;24 <;2D3 8:3<3 9= 2 ==9C95986 & ;26 =@D: D5;97 = ;24 D @283<.D5;952=, 8 9= 8<@3 8:;8 @==955 2 ?:3<3 8:3 3;=83<2 324 &8:3 6<323;2 <;2H3 <@2= 928 8:3 =3; ?;= ;29=: 4 ?2 8 N " C@8 8:;8 ?;= ; 5989D;5 =@<B9B;5 &< 7 8:3 94453 H3= 2 8 ; 2;8G9<;5 @29 2 8:3<3 D;2 C3 2 4 @C8 8:;8 H3 H<; :9D;556 @=V =955 2 9= ; <32D: ;24 2 8 ;2 C3<9;2 5;24 8:3 7 ;92 C;D>C 23 & 8:3 C @24;<6 D:;92 593= = @8: ;24 2 8 2 <8: & 98,

:3 6<3233= 8: @H: 92 :39H:8 8:36 D;22 8 B93 ?98: 8:3 5 = ;24 8: @H: 8:36 ;<3 2 8 23;<56 = X;HH34 <=D;< 34 ;= 8:3 H<3;83<D:;92 ;<3 3G8<37356 49&&9D@58 8 D< == ;55 8:3 7 <3 = C3D;@=3 8:3 :;24 & 7;2 :;= =354 7 D 73 8 :35 8:3 :;24 & 2;8@<3 92 7 ;>92H <;D89D;C53 5923= & ;DD3== C38?332 <;2D3 ;24 ;92, 2 8:3 ?: 53 532H8: C38?332 8:3 ;6 & 9=D;6 ;24 8:3 34983<<;23;2 8:3<3 ;<3 256 8? = : <8 &< 28= ?:3<3 9283<D 7 7 @29D;89 2 9= 3;=6 ;24 8:3=3 593 ;8 8:3 3G8<37 3;=8 ;24 ?3=8 ?:3<3 8:3 7 @28;92= 8 @D: 8:3 =3;, 2 8:3 $ # 7 953= ?:9D: 9283<B323 8:3<3 9= :;<456 23 H 4 ;== <;D89D;C53 & <? :33534 8<;&&9D <& <8:3 7 ;<D: & ;2 ;<7 6 7 =8 ;<3 7 3<3 7 @53. ;8:= <;<356 @=34 =;B3 C6 =7 @HH53<= ;24 =:3 :3<4=, :3 256 23 & 8:3=3 792 < < @83= 37 5 634 92 8:3 ?;< ?;= 8:;8 ?:9D: 53;4= &< 7 -;D; 92 <;H 2 8 5 < 2 92

@ 98= 92359H9C959893= ;2 ;D@83 C=3<B3< =;94 8:;8 ;4<94 D 7C9234 8:3= 95 &8:3 ;:;<;8:3=@2 &;5D@88;8:f?924 &492C@<H: ;24 8:3 D 54 &8:3 <8: 53,A : @H:92 2 =32=38:3 2;89@.;5 D; 98;5 &8:3 D @28<6 98:; 638 ;D3<8;92 79598;<6 97 <8;2D3 ;= 8:3 D328<3 &< 7 ?:XD:8:3 &);4.=6=837 &;92 <;49;83=, :3<3 9= ;=;H5;2D3 ;8 8:3 7; ?955 =: ?: : 8:3< 928 &< 7 ?:9D:;55 8:3 7;92 ;B32@3= &D 7 7@29D;89 2 ?98:8:3?: 53 &8:3 < B92D3= D;2 C3 D 28< 5534, 2 92B;43<8:3<3& <3?: ;=H 8 ==3==9 2 &98 D;2 7;>3 ;26 D 7C9234 ;D89 2 ;H;92=8 :97=35&B3<6 49&&9D@58, @8 :3 7@=8 2 8 &5;883< :97=35&8:;8 8:3 D; 8@<3 & ;4<94 D;<<93= ?98: 98 8:3,=;73 3&&3D8 8:;8 8:3 D; 8@<3 & ;<9= < 3<592 < /9322;328;95=, :3 < B92D3=:;B32 =@D:&33592H &43 32432D3 2 8:3 2;89 2;5 D; 98;5 ;= 9= D 7 7 2 92 8:3< D @28<93=, <;2D3 ?98: ;<9= DD@ 934 C6 ;2 32376 9= 59>3 ;C 46 ,43 <9B34 98= :3;4, @8 & < 24;5@=9;2= < ;8;5 29;2= <%49D9;2=8:3 DD@V ;89 2 & ;4<94 :;4 2 =@D: ;<;56=92H 3&&3D8, =3289 7328;5 ;&&3D89 2 & <8:3< 6;5<3=9432D3 ;24 ;4<94 ?;= 2 8:92H 7 <3 3G9=834, 24 ;H B3<2 7328 3=8;C59=:34 ;8 3B9553 < ;49R < ;26 hj8:3< 928 ? @54 C3 X@=8 ;= ?355 0 < ;= 9 P C3634 ;= 23 8:;8 9==@34 98= <43<= &< 7 8:3 =;246 C;2>= &8:3 ;2R;2;<3=,

:3 7;92 H3 H<; :9D;5 ;= ?355 ;=8:3 7;92 5989<;5 D:;<;DV 83<9=89D= &;92 ;<3 4383<7 9234 C6 98= B3<6 D 7 59D;834 7 @28;92. =6=837, 8 9= ;5;24 ?:3<38:3 <9B3<= D @28 & < 598853 ;24 8:3 :955= & < ;:2 =8 3B3<68:92H 92 =388592H 7 9598;<6 D 24989 2=, 2 7 =8 D @28<93= H<3;8 <9B3<= ;<3 D 223D892H D <4= &2;89 2;5 59&3 8:39< ?;83<= D;<<6 8:3 9283<2;5 8<;&&9D &8:3 <3;57 8:3 7;92 < ;4= 593 ;5 2H 8:39< C;2>=, @8 92 ;92 8:3 =8<3;7 892 = 983 &8:39< 532H8: ;24 =9R3 ;<3 @=353==, :36 7 =856 &5 ?92 433 .=@2> C34= &;< C35 ?8:3 53B35 &8:3 =@<< @2492H D @2896.=943 :39< <; 94 D@<<328 9= ;5?;6= ?9<592H < @24 < D>= < 4;=:92H B3< =;24C;2>= &832 8:36 &5 ?& < 7953 ;&83< 7953 C38?332 D59&&=, 7 ?:9D: 98 9= 97 ==9C53 8 <3;D:8:3 ?;83<= 34H3, 2 8:3 <;926 =3;= 2 8:36 ;<3 4;2H3< @= 8 <<328=92 8:3 =@7 73< ;55 =;B3 8:3 B396 5;<H3=8 4?92453 4 B2 928 7 9=3<;C53 C< >=, <9B3< 92 ;92 9= ;5?;6= ;=9743<92H C=8;D53 23B3< ;5923 &D 7 7@29D;89 2, 256 & < ;& 3?= =D <3= &29953= 23;<8:39< 7 @8:= D;2 ;26 23 &8:37 C3 @8959R34 & < 2;B9H;89 2 8:3 @< D;2 C3 = 37 5 634 ;= &;< ;= <3234;2 8:3 &< 2893< &<8@H;5 8:3 ;H@= 92 H 4 =3;= 2= ;= &;< ;= C<;283= 8:3 %@;4;5J@9B9< 8 3B9553, < 8:3 <3=8 &8:39< 5 2H D @<=3= 8:36 ;<3 2 8 ;B;95;C53 3B32 & < 8:3 59H:83=8 C ;8=,

;24 D@8 @ C6 7 @28;92= <@2292H 4 B2 8 98 ;8 <9H:8 ;2H53= 8 98=. D @<=3,

3:924 8:3 C< 593 D:;92 ;&83< D:;92 8:3 ;<;5535 =93<<;= ?:9D: 7;<> 9 8:3)49B9=9 2= &8:3 H<3;8 D328<;5 5;83;@ &8 ;92, <83D:3 D 7 ;<3= 8:37 8 8:3 ?;B3= &;H<3;8 38<9&934 =3; <@2292H = 73 :9H:3< ;24 = 73 5 ?3< C@8 ;55 ?;=:92H @ 928 X;HH34 D<3=8= ?98: 433 8< @H:= C38?332 8:37,

:3 &9<=8 ;24 7 =8 2 <8:3<56 &8:3=3 ?;B3= 9= 8:;8 ?:9D: ?3 7;6 D; 8:3<;2H3 &54 ;=8953 ?:9D:=3 ;<;83= 8:3 C;=92 &8:3 C< &89A 7 8:;8 &8:3 @< , 8 23 324 98 592>= 98=35& 8 8:3 6<323;2 D:;92 92 8:3 239H:C @<: 4 &;28;243<K ;8 8:3 8:3<98 D7B3= < @24 8 X 92 8:3 7 <3 D328<;5=93<<;= 92 8:3 49<3D89 2 &<9; ;24 ;5;8;6@4, 8 9= 8:3 5 ?3=8 &8:3 D:;92= ?:9D: C @24 8:3 D328<;5 5;83;@ &;92 ;24 9= 93<D34 C6 8:<33 <; 89D;C53 <;4= &?:9D: 8:3 7 =8 97 <8;28 9= 8:;8 &< 7 /988 <9; 8 @<H =,

38?332 8:9= D:;92 2 8:3 3;=8 ;24 8:3 ;28;C<9;2 7 @28;92= 2 8:3 2 <8: C3= 8:3 H<3;8 5;92 &54 ;=8953 ;24 3 2 8:3 :3;<8 &8:3 3543< ;29=: 7 2;<D:6 92 8:3 4;6= ?:32 <;H 2 ?;= =8955 9243 324328 ;24 24;5@=9;<37;9234 92 8:3 :;24= &8:3 <;8 9= ;&;9<56 < 4@D89B3 D <2. < 4@D92H 5;24 =8@4434 ?98: ;2D9328 D9893= =@9:9 ;= @<H = ;532D9; / ;55;4 594 < Q;7 <; ;5;7;2D;, :3 34 + ! 05;24 &8:3 5;92=P ;= 98 ?;= D;5534 ?;= 8:3 H<;2;<6 &<8:3<2 ;92 8:3 7 =8 D9B959R34 ;<8 &8:3 >92H4 7 ;24 8:3 256 23 ?:3<3 8:3<3 3G9=834 ;&;9<56 D 7 5383 =6=837 &< ;4=, <?;28 &8:3 9= 5;834 7 @28;92 D:;92= ?:9D: D@8 @ 7 =8 < B92D3= &8:3 C3<9;2 3292=@5; 98 ?;= :;<4 8 43&324 ;24 3;=6 8 B3<<@2, &8:3 7 @28;92= 8:;8 49B943 98 &< 7 8:3 C< B;5536 ;<3 2D3 ;==34 8:3<3 9= 2 ?;6 &=8 92H 8:3 92B;43< 89 :3 <3;D:3= 8:3 C <43< &=8@<9;=% ;59D9; < 3? ;=8953, :3 B: 53 5;92 &<7= 8:3 B;5536 &8:3 3< @< ;24 98= 8<9C@8;<93= 8:3 4;X; 9=@3<H; =5; <73= ;24 8:3 <3=8, 8 2;<< ?= 4 ?2 8 ?;<4= <8@H;5 ;= 8:3 7 @28;92= &%;59D9; 2 8:3 23 =943 ;24 =8<37;4@<; 2 8:3 8:3<8:< ?@8 8:39< = @<= 8 2 <8: ;24 = @8:, 32D3 8:3 ?3< @< B;5536 ;&83< 8:3 <8@H@3=3 &< 2893< :;= C332 ;==34 9= ;43&953 <;8:3<8:;2 ;5;92, 3& <3 <8 ;24 8:3 3=8@;<6 ;<3 <3;D:34 8:3<3 ;<3 7;26 5;D3= ?:3<3 8:3 7 @28;92= 2 398:3< =943 D 73 <9H:8 4 ?2 8 8:3 <9B3<A= 34H3,

:3 =3D 24 D:;92 9= 7@D:7 <3 97 <8;28 ;24 7 <3 =8< 2H56

8 5D;28;<; 35592H8 2 7 B34 92 ;D <<3= 2492H ?;6 &< 7 23;<
57 394;8 C<;283=, :9= <;4 <@2= ;5 2H 8:3 C;=92 &8:3
Q3R3<3 8: @H: 2 8 4 ?2 92 8:3 8< @H: &8:3 <9B3< C@8 :9H: @
8:3 :955=943= ;C B3 98, ;29=:;24 <8@H@3=3 <;4= ;= ?3 =:;55
=33 H323<;556 ;B 94 8:3 <9B3< C;2>= ;24 <@2 ;5 2H 8:3 =5 3= &;<
;C B3 8:37,

:3 23G8 H<3;8 D:;92 ;D< ==8:3 3292=@5;9=8:;8 ?:9D:=3 ;<;83=
8:3 C;<<32 ;24 =;246 B;5536 &8:3 3< ;H@= &< 7 8:3 =8955
7 <3 43= 5;83 ;24 735;2D: 56 5;83;@ & ; ;2D:;8:3 C;=92 &
8:3 %@;49;2;, &;55 8:3 <3H9 2= &328<;5 ;92 8:9= 9= 8:3 7 =8
8:9256 3 534 ;24 @292B9892H, 2 8:3 ?: 53 B;5536 8:3<3 ;<3 256
8? 8 ?2= &;26 =9R3 9@4;4 3;5 8:3 D; 98;5 & ; ;2D:;, ;24
;4;X R 8:3 &< 2893< & <8<3==;H;92=8 <8@H;5, :3 7 @28;92=
2 <8: &8:3 %@;49;2;, ;9)3 D;5534 &9<=8 8:3 93<<;43 534 8:32 8:3
93<<;, 43 %@;4;5@ 3 5;=856 2 8:3 <8@H@3=3 &< 2893< 8:3 93<<;
43 ;2 ;734, 5939< 3D@59;<986 ;= =34 8 8:3 8:3< D< ==V
<;2H3= &8:3 3292=@5;9=8:;8 ;8 8:39< 3G83<2 324 8:36 4 2 8
@2983 49<3D856 ?98:3 7 @28;92= &/;532D9;C@8 53;B3 ;C< ;4
H; &@ 5;24 8:< @H: ?:9D:8:3 < ;4= &< 7 ;4<94 8 @<D9;;24
;4<94 8 /;532D9;8;>3 8:39< ?;6, :32 8:3 93<<;43 534
2D3 C3H92= < ;4= ;<3 B3<6 &3?, :3<3;<b <;D89D;556 256 8:<33
0 P 534 C6 ;2 /92D3283 8 53<94;;7 =8 C<3;>.23D> < @83
?9249 2H ;7 2H =@7 798= & <& <86 7 953=$ 0$P 57;<;R C6 <@G955 8
3<94;8:3 7 ;92 ;8: &< 7 ;H@= 8 %@;49;2;;24 8:3 7 =8 @=34
8: @H: 98 9= 49&&9D948 ;24 =833 $ 0IP 5D;28;<;C6 5C@J@3<J@3 8
;4;X R ;C;4 7 9598;<6 < ;4 ;<;5535 8 8:3 <8@H@3=3 &< 2893<
D 2892@92H 8:3 =9795;< @83 &< 7 ;5;7;2D;8 5D;28;<;,

3;B92H 8:3 C;<<32 C;=92 &8:3 %@;49;2;8 < D334 = @8:?;<4
?3 &924 ;D< == @< 8: ;<;2H3 &9<=8.<;83 97 <8;2D3 8:3
= @8:3<2 C @24;<6 &8:3 D328<;5 5;83;@G ;92 4< 92H
4 ?2 &< 7 98= D<3=8 ?3 ;<3 2 5 2H3< ;7 2H :9H: @ 5;24= C@8 92
8:3 C< ;4 5 ?.5692H =379.8< 9D;5 5;92 & 24;5@=9;8:3 <9D:3=8
<3H9 2 & ;92, :3 D:;92 C38?332 8:3 &3<8953 B;5536 &8:3
%@;4;5J@9B< ;24 8:3 C;<<32 5;83;@ & ; ;2D:;9= >2 ?2 & <
8:3 H<3;83< ;<8 &98= D @<=3 ;= 8:3 93<<; <32; C@8 92 98=
?3=83<2 =3D89 2 98 8;>3= 8:3 2;73 & 93<<;43 2=8;2892 , :3
;==3= ;D< == 98 <3J@9<3 = 3D9;5 2 89D3K 8:3 7 =8 3;=83<2 ;24 8:3
7 =8 97 <8;28 9= 8:;8 & 3= 32;. 3<< =8:< @H: ?:9D: ;==3= 8:3
:9H: < ;4 &< 7 ;4<94 8 >9<4 B; 3B9553 ;24 ;49R, 8 98=
= @8:3<2 3G98 ?;= & @H:8 8:3 &9H:8 & ;6532 92 ?:9D: 8:3,3@793=

M#' ' % % ' ' ' ' W M##M

&' ; 53 2' <3D39B34' 8:39<' &9<=8' H<3;8' D:3D>' C6' 8:3' =@<<3243<' &'
@ 28' ;24' :9=' $# ###' 732' 2' -@56' $I ' M#M,' 9H:3<' @ ' 8:3'
43&953' 593=' ;2 8:3<':9=8 <9D'= 8 ' 2'?:9D:', :<9=89;2';24' <'& @H:8'
8:3' 43D9=9B3' C;8853' & <' 8:3' 7;=83<6' &' ;92' 92' 8:3' 3;<56'63;<=' &'
8:3' 8:9<83328:' D328@<6' 8:3')355.>2 ?2' &9H:8' &' ;=' ;B;=' 43'
5 =;,' :3) 3= 32;. 3<< =' :;=' 8? ' =943. ;==3=' D5 =3' 8 ' 98=' 53&8'
;24' <9H:8K' 8:3' & <73<' 9=' 8:;8' &' ;2' =83B;2' 435' @3<8 N' 8:3'
5;883<' 9=' >2 ?2';=8:3' T 092HA=' %;83K' 0 @3<8 ' 435' 36P,' 55' 8:3=3'
8:<33' 43&953=' <3=328' 8<37324 @=' 49&&9D@5893=' 8 ';2';==;95;28'&< 7'8:3'
2 <8:' 638';55' ?3<3' D;<<934' 92';'=92H53' <@=:' C6'8:3';<793=' &' @58'
;24' 3C;=89;29' 92' M #,' :3' D328<;5' ;==' &'8:3' 93<<;' 4<32;'
593=' 292386' 7953=' 8 ' 8:3' 53&8' ;24' 9=' &' 7@D:' 53==' 97 <8;2D3' ;='
98' =8;<8=' &< 7'8:3' 7 =8';<94' D 73<' &' ;' ;2D:;';24' 4 3=2 8'
D 223D8' 98=358&?98:' ;26' &'8:3' H<3;8'< ;4=' &< 7'8:3' 2 <8:,' 8' 53;4='
4 ?2' 2' 8 ' <4 B;'&< 7' 92 X =;,' H;92' =9G86' 7953=' 8 ' 8:3' ?3=8'
8:<33' 7 <3' ;==3=' D 73' 4 ?2' 2' 8 ' 3B9553' 8:3' 23' C6' 53<32;' 8:3*'
=3D 24' C6' 2;=83<9 ' 8:3' 8:9<4' C6' <3H32;5K' 8:36' 53;4' 8 ' ;4;.'
X R' ;24' 3<94;,' :3=3' ;<3' 3;=93<' < @83=' 8:< @H:' ;' 53==' <@HH34'
D @28<6K' 8:36' ?3<3' :;C98@;556' @=34' C6' @58' 92' M ' ;24' M $'
?:32' &< 7' :9=' 24;5@=9;2' C;=3';8' 3B9553' :3' @=34' 8 ' H ' 2 <8:' 8 '
C3=93H3' <' 8 ' <3593B3' 8:3';55.97 <8;28'& <8<3==' &' ;4;X R,
;=8' &';55' 8:3' H<3;8' ;29=:' D:;92=' 9=' 8:;8' ?:9D:' 593=' D5 =3';5 2H'
8:3' 34983<<;23;2' 3;' & <792H' 8:3' = @8:3<2' 34H3' &' 8:3' &3<8953'
24;5@=9;2' 5;92,' 8' 9=' 8:3' 93<<;' 3B;4;' ?:9D:' 8: @H:' 2398:3<'
8:3' 5 2H3=8' 2 <' 8:3' C< ;43=8' &' 8:3' <;2H3=' &' 8:3' = @8:' D 28;92='
8:3' 5 &893=8' 3;>=' 92' ;92' @5:; 32';24' ;' /3538;,' :9=' D:;92'
<@2=' &9A 7' C3:924' %9C<;58;<' ;5 2H' 8:3' =: <3' 8955' 98'\X 92=' 8:3'
7 @28;92=' &' @<D9;'53;B92H' 256';'B3<6'2;<< ?'D ;=8.=8<9 'C38?332'
98=' & 8' ;24' 8:3' = @8:3<2'=3;,' :<33' < ;493' D@8' 98' 92' 98=' ?3=83<2'
:;5&' ?:9D:' =8;<892H' &< 7'%<;2;4;' 24;';24' 283J@3<;';55' D 73'
4 ?2' 8 ' 8:3' =: <3';8' <' 92' 8:3' 239H:C G@*: 4' &' 8:3' H<3;8' <8'
&' ;5;H;,' :3' ;<8=' &'8:3' D ;=8.5923' 8:;8';<3' &;<' &< 7'8:;8' D986'
;<3' 9-6';DD3==9C53' C6'& 55 ?92H' 49&&9D@58' < ;4=' 8:;8'<@2' D5 =3' 8 ' 8:3'
?;83<A=' 34H3,
3':;B3' =8955' 8 ' 43;5' ?98:' 8? ' D 73<=' &'8:3 C3<9;2' 3292=@5;'
?:9D:' 4 ' 2 8' &;55' 928 ' ;26' &' 8:3' H<3;8' B;5536=' 8:;8' ?3' :;B3'
43=D<9C34 %;59D9;' ;24' <8:3<2' <8@H;5' 92' 8:3' 2 <8:.?3=8' ;24'
;8;5 29;' 92' 8:3' 2 <8:.3;=8,' :3' H3 H<; :9D;5' D 249893 2=' &' 8:3'
& <73<' <3H9 2' 43 324' 2' 8:3' ;28;C<9;2' @28;92=' 8:3' ?3=83<2'
D 2892@;89 2' &' 8:3' 6<3233=,' :9=' D:;92' ;&83<' <@2292H' & <' 7;26

7 953=' ;=' ;' =92H53' <94H3 ' & <>=' 92' 8 : 3' 239H : C @< : 4' &' 8 : 3' 8 ? 2' &' 3 2,' 23' C< ; 2D : ' >33 =' 2' 92' 98=' <9H92 ; 5' 49<3D89 2 ' ; 24' <@2=' C6' 8 : 3' D ; =8' 8 5' 98' <3 ; D : 3=' 8 : 3' 85 ; 289D' ; 8' ; 3' 929=83<<3,' : 3' 8 : 3<' 8@<2=' = @8 : . ? 3=8' ; 24' 49B943=' ;92' &< 7 ' <8@H ; 5' ;=' &; <' ;=' 8 : 3' =3 ; ,' : 3' ; 2H53' C38 ? 332' 8 : 3=3' & <>92H' < ; 2H3=' 9=' 4< ; 9234' C6' ;' D 2=943< ; C53' <9B3< ' 8 : 3' 92 : ,' : 3' C ; =92=' &' 8 : 9=' =8<3 ; 7 ' ; 24' 98=' 8<9C@8 ; <6' 8 : 3' 95 ,& < 7 ' 8 : 3' H<3 ; 83<' ; <8' &' 8 : 3' < B92D3' &' % ; 59D9 ; ,' : 39<' B ; 5536=' ;<3' 5 &86 ' 7 @D : ' D@8' @ ' C6' D< ==.= @<=' ; 24' H323< ; 556' C ; <<32,' : 3' ; DD3==' 8 ' 8 : 3 7 ' &< 7 ' 328<; 5' ;92' 9=' C6' 8 ? ' 3292H=,' : 3' 7 ; 92' 23' 9=' 8 : 3' : 9H : ' < ; ' &< 7 ' ; 4<94' 8 ' <@22 ; ' C6' =8 <H ; S' 98' 4 3=' 2 8' & 55 ?' 8 : 3' D @<=3' &' 398 : 3<' 8 : 3' 95' <' 8 : 3' 92 : ' C@8' D : ; <H3=' D< ==.<94H3' ; &83<' D< ==.<94H3' &' 8 : 3' = @<=' &' 8 : 3' % ; 59D9 ; 2' , : 955=' 8955' ; 8' 5 ; =8' 98' D 7 3=' 4 B2' 8 ' 8 : 3' ? ; 83<' ; 24' & <>=' 928 ' 8 ? ' < @83=' 53 ; 492H' 8 : 3' 23' 8 ' <@22 ; ' 8 : 3' 8 : 3<' 8 ' 8 : 3' =89 ' 7 <3' 9 7 <8 ; 28' ; <=32 ; 5' &' 3<< 5,' : 3' 8 : 3<' H ; 83' &' % ; 59D9 ; ' 9=' ; ' 598853')8 ' 8 : 3' = @8 : ' &' =8 <H ; ' ? : 3<3' ; ' ; ==' ; C B3' 8 : 3' 8 ? 2' &' @3C5 ; ' 43' ; 2 ; C<9 ; ' H9B3=' ; DD3==' 8 ' ; ' =833 ' ; 24' ? 92492H' < ; 4' ; <; 5535' 8 ' 8 : 3' <8@H@3=3' &< 2893<' ? : 9D : ' &92 ; 556' H38=' 928 ' 8 : 3' B ; 5536' &' 8 : 3' 92 : ' ; 24' 8@<2=' 4 ? 2' 8 ' <3 ; D : ' 8 : 3' <8' &' / 9H ,' 8' ? 955' C3' <3 7 3 7 C3<34' 8 : ; 8' 9<' - : 2' <3 ' 92' : 9=' &; 7 @=' <38<3 ; 8 ' : 3=98 ; 834' & <' = 7 3' 89 7 3' ; 8' =8 <H ; ' C38 ? 332' 8 : 3' / 9H ' ; 24' <@22 ; ' < ; 4=' ; 24' &92 ; 556' D : =3' 8 : 3' 5 ; 883<,' 59=' X@4H3 7 328' ? ; =' @24 @C8345' D <<3D8 ' C@8' 8 : 3' C3=8' ; 583<2 ; 89B3' ? ; =' C ; 4 ' & <' 92' ? 9283<' 3B32' 8 : 3' ; 4<94 . ' <@22 ; ' < ; 4 ' 8 : 3' 7 ; 92' ; <83<6' &' 8 : 9=' ; <8' &' ; 92 ' 9=' 49=8<3==92H' 32 @H : ' 8 ' ; 2' ; < 7 6,' 8' 4 3=' 2 8' & 55 ?' ; 26' ? 355. 7 ; <>34' B ; 5536 ' C@8' D@8=' ; D< ' & @<' =3 ; <; 83' < ; 2H3=' 3B3<6' 23' &' ? : 9D : ' 92' - ; 2@ ; <6' ? ; =' ;' 2@<=3<6' &' 8 <<328=' 92' 98=' 5 ? 3<' =5 3=' ; 24' ; 2' ; C 43' &' =2 ?' 92' 98=' @ 3<' 53B35=,' 3=943=' 8 : 3' < ; 4=' kB88 : ' ? : 9D : ' ? 3' : ; B3' ; 5<3 ; 46' 43 ; 58' 8 : 3<3' 9=' ;' 8 : 9<4' 9 7 <8 ; 28' 5923' &' D 7 7 9 7 9D ; 89 2' 92' % ; 59D9 ; ' 8 : ; 8' C6' 8 : 3' 2 ; << ?' D ; =8. 5 ; 92' &' 8 : 3' 85 ; 289D' &< 7 ' <@22 ; ' C6' ; 289 ; H ' 8 ' / 9H ' ; 24' 8 : 32D3' 928 ' <8@H ' ; =' &; <' ; =' <8 ,' : 9=' ? @54' C3' ;' H 4' < ; 4' C@8' & <' 8 : 3' 922@ 7 3< ; C53' <9B3<. 7 @8 : = ' = 7 ; 55' ; 24' H<3 ; 8 ' ? : 9D : ' 98' : ; =' 8 ' D< ==K' 8 : 3' < ; 4' ; ==3=' 3 ; D : ' =8<3 ; 7 ' X@=8' ? : 3<3' 98' D3 ; =3=' 8 ' C3' 894 ; 5' ; 24' ; 8' 3 ; D : ' 9=' &< 2834' ; 8' <9H : 8' ; 2H53=' C6' ;' 43&32=9C53' =989 2 ' ? : 9D : ' 9&' : 354' C6' ;' D 7 38328' 3237 6 ' 9=' 49&&9D@58' 8 ' & <D3' &< 7 ' 8 : 3' &< 28 ' ; 24' =8955' 7 <3' 49&&9D@58' 8 ' 8@<2' C6' ;' 438 @<' @ .=8<3 ; 7 ,' 3B3<8 : 353==' 98' ? ; =' C6' 8 : 9=' < @83' 8 : ; 8' @58' =@DD3==&@556' 92B ; 434' <8 : 3<2' <8@H ; 5' 92' 8 : 3' = <92H' &' M#",' 8' 7 @=8' C3' <3 7 3 7 C3<34' 8 : ; 8' : 3' ? ; =' 256' =34' C6' C ; 24=' &' 3 ; = ; 28=' 2 8' 3B32' <H ; 29R34' 928 ' 8 : 3' 5 =3=8' & < 7 ' &' 7 95989 ;

M$' ' % % ' ' ' ' W M##M

:3' H3 H<; :6' &' ;8;5 29;'8:3'5;=8' C3<9;2' <3H9 2'?98:'?:9D:'?3' :;B3'8'43;5'9='7 <3'=97 53'8:;2'8:;8' &'%;59D9;,' :3'5;24'9='& <734'C6';'C< ;4'7 @28;92'C358'<@2292H' @8'&< 7'8:3'3;=83<2'324' &'8:3' 6<3233='<;<;5535'8'8:3' 34983<<;23;2,' < 7'8:9='D:;92' 8:3'=5 3='<@2'4 ?2';24'& <7' 2'8:3'3;=83<2'=943';'D ;=8. 5;92'H323<;556'<;8:3<'2;<< ?' 2' 593'?3=83<2';'=3<93='&' ;<;5535'B;5536='4<;9234'C6'8<9C@8;<93='&'8:3' 3H<3'8:3'7 =8'97 <8;28';&&5:328' &'8:3' C< =,' :36';'@2983'23;<' 3<94;';2'97 <8;28'8 ?2';24';'H<3;8'D328<3' &'< ;4=,' @8'8?'D 2=943<;C53'<9B3<='8:3' 3<';24'8:3' C<3H;8':;B3'=7;55'C;=92='&'8:39<' ?2'92'8:3':3;<8' &'8:3'D328<;5'7 @28;92'7;==' ?:9D:' 32'4 ?2'928'8:3'D ;=8. 5;92'C6'43&953='8:3' 23'C5 D>34'C6'8:3' 3;>' &' 28=3<<;8'8:3' 8:3<'C6'8:3'8 ?2' &'%3< 2;,' @<92H'8:3'H<3;83<' ;<8' &'8:3' 3292=@5;<';<'8:3' <32D:':354'8:3'5;<H3<'=:;<3' &'8:3'=: <35;24'4 792;892H'98' &< 7'8:3'H<3;8'& <8<3==' &' ;<D35 2;'?:9D:'8:36':;4'=39R34'C6'8<3;D:3<6'3<3':=8959893='C3H;2,' 2' M '8:36'D; 8@<34' ;<<;H 2;';5='8:3'=3D 24'D; 98;5' &'8:3'=3;'D ;=8,' @8'8:36'23B3<'=@DD33434'92':5492H'4 ?2';55'8:3'=7;55'@ 5;24' 5;92='';24'8:3'792 <' ;==3='8:;8'53;4'&< 7' 23'8'8:3' 8:3<,' @2834' @8' &' 23'8:3' ;29=:';<76'8 >'<3&@H3'92'8:3'23G8';24'8: @H:'98'4?924534'4 ?2'@5897;8356'8';'7;==' &'H@3<9 ;'C;24='?;=' 23B3<'D;@H:8' ' ';24'3G83<792;834,' :3<3'?3<3'8 ' 7;26'C 58.: 53=' ;7 2H'8:3'238? <>' &':955='';24'8:3'92B;43<='23B3<'=@DD33434'92'=8 92H'8:37';55'='8:;8'4 ?2'8'8:3'324' &'8:3*?;<8:3' ;8<9 8='5?;6='7;92V8;9234';' <3D;<9 @='3G9=832D3'925;24'43=D32492H' DD;=9 2;556'8'8:3'=: <3'8'H38';7 7@2989 2';24'=8 <3='&< 7'8:3' 2H59=:'=J@;4< 2='?:9D:':;@2834'8:3'D ;=8,' :36'?3<3'=@ 5934';24'<392& <D34'&< 7'8:3' ;53;<9D' =53='?:9D:' ; 53 2'D @54'23B3<' : 3'8'8 @D:'& <':9=' ?3<059>3'8:;8' &'8:3'?98D:3=' &' 54P'B;29=:34'?:32'98'D;73'8'<@2292H'?;8 ,' :3'=@<B9B;5' &'8:3' ;8;5;2'<3=9=8;2D3';&83<'8:3' <32D:':;4'4<;?2';'D 7 5383'D <4 2';< @24'8:3' :955.D @28<6':5492H'8:3'?: 53'D ;=8. 5;92' 2'8:3' 23':;24';24' 3<94;';24'8:3' 3H<3'B;5536' 2'8:3' 8:3<'9=' 23' &'8:3'92D94328=' &'8:3'?;<'7 =8'D<3498;C53'8' ;29=:'D 2=8;2D6,

;B92H'43;58'?98:'8:3' :6=9D;5'H3 H<; :6' &' ;92'98'9='23D3==;<6'& <'@='8' 928' @8'8:3'?;6'92'?:9D:'8:3'2;8@<;5'49&&9D@5893=' &'8:3'D @28<6':;4'92&5@32D34'98=' 7;92'5923=' &'D 7 7@29D;89 2,' ;4=';5?;6=8;>3'8:3'I'5923' &'53;=8'<3=9=8;2D3)'92'3;<56'4;6='';24'=33>'& <'3;=6' ;==3='2 8'& <'=: <8'D@8=,' :3'943;'8:;8'I'8973'9=' 7 236A';24'8:;8'92=83;4' &.H 92H'< @24'8? '=943=' &';'8<9;2H53'98' 7;6'C3'? <8:

? : 953‘ 8 ‘ D@8‘ ; ‘ 23?‘ ; 8 : ‘ ; D< ==‘ 98=‘ C ; =3 ‘ 92‘ = 983‘ &‘ ; 55‘ 32H9233<92H‘ 49&&9D@5893= ‘ ? ; =‘ 23‘ B3<6‘ @2&; 7 959; <‘ 8 ‘ 8 : 3‘ ; 29; <4,‘ 8 : 92H‘ = : ?=‘ 7 <3‘ D53; <56‘ 8 : 3‘ =8; 83‘ &‘ 7 349; 3B; 5‘ 9= 5; 89 2‘ 92‘ ? : 9D : ‘ 8 : 3‘ >92H4 7 ‘ =89 ‘ 5; 6‘ 92‘ M#M‘ 8 : ; 2‘ 8 : 3‘ D 24989 2‘ &‘ 98=‘ < ; 4=,‘ : 3<3B3<‘ 8 : 3‘ D @28<6‘ <3=32834‘ ; 26‘ =3<9 @=‘ C=8; D53= ‘ C8853‘ <‘ 2 ‘ ; 883 7 8‘ : ; 4‘ C332‘ 7 ; 43‘ 8 ‘ H<; 53‘ ? 98 : ‘ 8 : 3 7 ‘ =92D3‘ 8 : 3‘ 4 ; 6=‘ &‘ 8 : 3‘ 7 ; 2=,‘ 593‘ 323<H389D‘ : ; <53=‘ ‘ ; 5 23 ‘ ; 7 2H‘ 8 : 3‘ >92H=‘ &‘ 8 : 3‘ =3B3283328 : ‘ ; 24‘ 39H : 83328 : ‘ D328 7 .93= ‘ : ; 4‘ 4 23‘ = 7 38 : 92H‘ 8 ‘ 9 7 < B3‘ 8 : 3‘ =6=83 7 ‘ &‘ 9283<D 7 7 @29D; 89 2,‘ 3‘ : ; 4 ‘ & <‘ 3G; 7 53 ‘ =@ 3<=3434‘ 8 : 3‘ 54‘ C<3; >.23D>‘ < ; 4‘ &< 7 ‘ 8 : 3‘ 5; 92=‘ &‘ 3 2‘ 928 ‘ %; 59D9; ‘ C6‘ C@95492H‘ ; 8 : 3‘ &923‘ 23?‘ ‘ &< 7 ‘ =8 <H; ‘ 8 ‘ / 9 ; &<; 2D; ‘ C6‘ ; 2R; 2; 55‘ C@8‘ ; 7 2H‘ 8 : 3‘ 5923‘ &‘ ; =C@<H‘ ; 24‘ @<C 2‘ = B3<39H2=‘ : ; <53=‘ ? ; =‘ ; ‘ <; <3‘ 3GD3 89 2,‘ 243<‘ 8 : 3‘ 9 7 C3D953‘ <@53‘ &‘ : 9=‘ = 2‘ 0 <‘ <; 8 : 3<‘ &‘ % 4 6P‘ 9 7 < B3 7 328=‘ D3; =34 ‘ ; 24‘ 9283<2; 5‘ D 7 7 @29D; 89 2=‘ ? 3<3‘ ; =‘ 7 @D : ‘ 23H53D834‘ ; =‘ ; 26‘ 8 : 3<‘ C<; 2D : ‘ &‘ =8; 83‘ 7 ; 2; H3 7 328‘ : ; 8‘ < ; 4=‘ 8 : 3<3‘ ? 3<3‘ ? : 32‘ 8 : 3‘ ? ; <‘ &‘ M#M‘ C< >3‘ @8 ‘ ? 3<3‘ 92‘ ; ‘ =8; 83‘ &‘ 4<3; 4&@5‘ 23H53D8,‘ : 3‘ ; 29; <4‘ ? ; =‘ =85 ‘ 8 ‘ < 23‘ 8 ‘ H ‘ < @24‘ ; 2‘ 928 53<; C53‘ 49=8; 2D3‘ <; 8 : 3<‘ 8 : ; 2‘ ; 883 7 8‘ ; ‘ =3<9 @=‘ 93D3‘ &‘ 32H9233<92H‘ ? <>,‘ 38‘ @=‘ 8; >3 ‘ & <‘ 3G; 7 53 ‘ 8 : 3‘ 2 <8 : 3<2‘ D ; =8‘ &‘ ; 92‘ K 8 : 3‘ ; 28; C<9; 2‘ <; 2H3‘ 9=‘ 2 ‘ 4 @C8‘ ; ‘ 7 =8‘ =3<9 @=‘ C=8; D53‘ 8 ‘ 9283<D @<=3‘ C38?332‘ ; =8953‘ ; 24‘ 3 2 ‘ 2‘ 8 : 3‘ 23‘ =943 ‘ ; 24‘ 8 : 3‘ 7 ; <989 7 3‘ < B92D3=‘ &‘ =8@<9; =‘ ; 24‘ 9=D; 6‘ 2‘ 8 : 3‘ 8 : 3<,‘ @8‘ ? : ‘ ? @54‘ : ; B3‘ D 2D39B34‘ 98‘ ==9C53‘ 8 : ; 8‘ 92‘ ; ‘ 532H8 : ‘ &‘ I##‘ 7 953=‘ &‘ 7 @28; 92 ‘ 8 : 3<3‘ = : @54‘ C3‘ 2 ‘ 7 <3‘ 8 : ; 2‘ &9B3‘ < ; 4=‘ <; D89D; C53‘ & <‘ ? : 33534‘ 8<; &&9D‘ ; 24‘ ; <89553<6‘ b 38‘ 8 : 9=‘ ? ; =‘ = K 8 ‘ H38‘ 4 ? 2‘ &< 7 ‘ 8 : 3‘ D328< ‘ 5; 83; @‘ 8 ‘ 8 : 3‘ D ; =8‘ 8 : 3<3‘ ; <3‘ 256‘ ; B; 95; C56‘ 8 : 3=3‘ &9B3‘ < @83= 23‘ &< 7 ‘ 3 2‘ 8 ‘ B934 ‘ 23‘ &< 7 ‘ @<H =‘ 8 ‘ ; 28; 243<‘ 23‘ &< 7 ‘ @<H =‘ 8 ‘ 95C; ‘ 23‘ &< 7 ‘ / 988 <9; ‘ 8 ‘ 95C; ‘ ; 24‘ 23‘ &< 7 ‘ / 988 <9; ‘ 8 ‘ ; 2‘ 3C; =89; 2‘ ; 24‘ <@2,‘ : 3<3‘ ? 3<3‘ 7 ; 26‘ 8 : 3<‘ 928=‘ ; 8‘ ? : 9D : ‘ ; ‘ 49B9=9 2‘ 8<; B35592H‘ 92‘ 59H : 8‘ <43<‘ ? 98 : @8‘ H@2=‘ <‘ C; HH; H3‘ D @54‘ D< ==‘ 8 : 3‘ B; 83<=: 34 ;=‘ ? ; =‘ = : ? 2‘ 92‘ 5; >3A=‘ &59H : 8‘ &< 7 ‘ 362 =; ‘ ; 24‘ 36A=‘ 92B; =9 2‘ &‘ 8 : 3‘ =8@<9; =,‘ @8‘ & <‘ ; 2,‘ ; <7 6‘ 8<; B35592H‘ B98 : ‘ ; 55‘ 98=‘ ! ‘ =@D : ‘ C6 ; 8 : =‘ ? 3<3‘ 9 7 <; D89D; C53,

38‘ @=‘ 8; >3‘ ; 2 8 : 3<‘ ; <8‘ &‘ 8 : 3‘ 3292=@5; 98=A3; =83<2‘ =943,‘ : 3‘ ; 2D9328‘ =3 ; <; 89 2‘ C38?332‘ <; H 2‘ ; 24‘ ; =8953‘ 9=‘ &@556‘ <3&53D834‘ C6‘ 8 : 3‘ @883<‘ 9= 5; 89 2‘ &‘ 8 : 3‘ 8? ‘ & <‘ 9283<D 7 7 @29D; 89 2,‘ ‘ H38‘ &< 7 ‘ ; 4<94‘ 8 ‘ 8 : 3‘ 3; =8‘ D ; =8‘ 8 : 3<3‘ ; <3‘ 256‘ 8 : <33‘ < ; 4=‘ =@98; C53‘ & <‘ ? : 33534‘ 8<; &&9DK 23‘ H 3=‘ C6‘ 8 : 3‘ 7 ; 92‘ H; ‘ 92‘ 8 : 3‘ : 955=‘ C6‘ : 92D : 955; ‘ 8 ‘ @<D9; ‘ ; 2 8 : 3<‘ C6‘ 3J@3&9; ‘ 8 ‘ / ; 532D9; ,‘ : 3

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;<76 &< 7 23 <9B3<.C;=92 8 X9 8:3< ?;= ;.=3<9 @= 7;883<, 8 ?;= 23D3==;<6 8 = 324 ?33>= 92 D 553D892H ;8 8:3 C;=3 & 4 ;24 8<;2= <8 =@&&9D9328 8 =@ <8 8:3 ?: 53 & <D3 8955 98 <3;D:34 98= H ;5, 2 M < <M $8:3 <32D:;24 2H59=:?3<3 D 2892@;556 7 B92H @ ;24 4 ?2 8:3 <8@H@3=3 &9) 2893< ;<D35 8 3;D: 8:3<8:3 23 &< 7 ;5;7;2D;8 ;4;X R8:3 8:3<&< 7 57394;S < <@;<4;8 5B;=, @8 8 <3 ;<3 & < 23 &8:3=3 &598892H= ?;= =@D:;=3<9 @= 7;883<8:;8 C68:3 8973 8:;8 8:3 ;9426 ?;= ;C53 8 7 B38:3 32376:;4 @=@;556 H 8 ?924 &8:3 5;2 ;24 ?;= ;C53 8)& 55 ?8:3 7 B3732 8 2 :9= ?2 =943 &8:3 &< 2893<, :393 ?3<3 7 28:= &<3 ;<;89 2<3J@9<34 C3& <3 ;&3?3?33>= &;D89B3 3<;89 2= ;24 ?:32 8:3 D 2D328<;89 2 ?;= B3< ;24 8:3 & <D3= 7;==34 8:36 D @54 256 >33 8 H38:3<;= 5 2H ;= 8:3 & 4 :354 @8 ;924 8:32 :;4 8 49= 3<=3 ;H;92 92 <43< 8 59B3, :9= ?;= ?:;8 ?;= 73;28 C68:3 54 3 9H<;7 8:;8 92, ;92 5;<H3 ;<793= =8;<B3 ;24 =7;55 ;<793= H38 C3;832,

;5& 8:3 =8<;83H6 &8:3 D;7 ;9H2= &M . $. I D 2=9=834 92 23 &8:3 D 7C;8;28= =3D<3856 D 553D892H =8 <3= D 2D328<;892H :9= ?: 53 ;<76 ;24 8:32 4;=:92H ;8 = 73 97 <8;28 ;<8 &:9= ;4B3<=;<6= 5923 C3& <3 8:3 8:3< D @54 7;== :9= & <D3= 92 ;D <<3V = 2492H ?;6, & < 7 8 8:3 ;==;95;28 79H:8 H;92 ;& <829H:8 92 ?:9D:: 3 79H:8 398:3< 8<6 8 437 59=:8:3 3237 6 92 438;95 C3& <3 :3 D @54 D 2D328<;83 < 35=3 8 8;>3 &< 7 :97 = 73 97 <8;28 =989 2 < 8 ?2, 2 M ;<7 28 ;24 <=3223 5;634 8:9= 8<9D> 2 35592H8 2 4@<92H 8:3 =: <8 D;7 ;9H2 & 5 4 2 ;24 543;4; 283, :36 <3593B34 9@4;4 9A9H ;24 23;<56 D;@H:8 = 73 49B9=9 2= &8:3 2H59=:;<76 C3& 9)3 8:3 <3=8 D @54 X 92, @8 79==92H 8:3 92=8;28 C5 ?;24;55 ?92H 35592H8 2 8973 8 4<;?92 :9= @85692H 8< =8:36 &;9534 ;24 ?328 : 73, 2, M $ 2 8:3 8:3< :;24 8:3 <989=:H323<;5 =@DD3==&@556 5;634 &&8:9= 43B9D3 2 8:3 <32D:, 3 &9<=8 D 2D328<;834 92 8:3 2 <8:;24 D; 8@<34 9@4;4 4<9H 92 353B32 4:6= C3& <3 ;<7 28 D @54 7;== :9= =D;883<34 49B9=9 2=$ 8:32 H 92H :;=8956 = @8:3:3 8 >;4;X R 92 3G;D856 8:3 =;73 ?;6 =8 <792H 98 ;&83< 256 29238332 4;6= &=93H3, @58 4<3?:9= ;<76 8 H38:3< ;8 8:3 23?= & 35592H8 2= 7 B3 C@8:;4 8 C<92H 8< = &< 7 =@D:49=8;2D3= ;24 8 D 553D8 = 7@D:& 4 8:;8 :3 ;<<9B34 ?98:92 8:<33 7 <D:3= & ;4;X R 256 8 :3;<8:;8 8:3 5;D3 :;4 X@=8 &;5532,

2 43;592H ?98:8:3 7 92 H3 H<; :9D;5 &;D8= &8:3 ?;< 98 9= &;9< 8 <3D 553D8 8:;8 ;2 92B;=9 2 & ;92 &< 7 <;2D3 9= 23 &8:3

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23 &8:3 D;<492;5 C5@243<= & ; 53 2A= ?: 53 =D:37 3 & <8:3 D 2J@3=8 &8:3 3292=@5;'' 8:;8:3 3<=9=834 92 8<3;892H 98 ;=9&98 ?3<3 %3<7;2 <8;59;2 = 95 D; ;C53 &=@ <892H ;2 ;<296 2 8:3 7;<D:, 9= 8< = ?3<3 ;DD@=8 7 34 8 59B3 2 8993 D @28<6.=943 ?:953 D< ==92H 328<;5 @< 3 ;24 8:3<3& <3 7;43 2 < 3< <3V ;<;89 2= & <=@ 5692H 8:37=35B3= C6 8:3< 73;2= 8:;2 5@243<, @8 92 ;92 8:3<3 ;<3 256 ;&3?49=8<9D8= ?:3<3 8:9= D;2 C3 4 23$ 98 7;6 C3 ==9C53 8 H38 & <?;<4 ?98: @8 ;2 32 <7 @= 8<;92 & D 2B 6= 92 24;5@=9;8:3 D ;=8 5;92 &/;532D9;;24 D3<8;92 ;<8= &8:3 <;8:3< &3<8953 5;83;@ &,3 2 8:3 ?:3;8.C3;<92H 3 + ! @8 B3<& @<.&9&8:= &8:3 3292=@5;;2 ;<7 6 8:;8 8<93= 8 &334 2 8:3 D 28<6.=943 ?955 &924 98=35&;8 8:3 928 &=8;<B;89 2 92 ;&3?4;6=;24 C3 & <D34 8 49= 3<=3 92 <43<8 59B3,

955 :3 :;4 =332 ;92 ?48:: 9= ?2 363= ; 53 2 7 9H:8 3<:; =:;B3 C332 3GD@=34 & <9H2 <92H 8:3 &;D8 8:;8 :9= <492;<6 7 38: 4 &'7 ;>92H ?;<=@ <8 98=35&? ;=2 8 92 8:9=D;=3 ==9C53, @8 3B32 ;&83<:3 :;4 7 ;<D:34 &< 7 ;6 223 8 ;4994 ;24 8:32 &< 7 ;4<94 8 =8 <H;92 M#M :3 39.=9=834 92 <3&@=92H 8 =33 &;D8= ;=8:36 ?3<3, 3 &924 :97 2 :9= ?;6 C;D> 8 ;<9= &< 7 8:3 D;7 ;9H2 @883<92H 8:3 3G8<; <492;<6 =8;83 7 328 8:;8 ;92 9= ;7 @D: C3883< D @28<6 8:;2 :3 :;4 3B3< =@ =34 ;24 8:;8 :3 :;4 2 943;? :;8 ;7 ;H29&9D328 <3=328 :3 :;4 7 ;43 8 :9= C< 8:3< - =3 :8955 :3 :;4 =332 98> & &:9= @883< &;95@<3 8 H<;= 8:3 49&&9D@5893= &8:3 D @28<6 ?3 7;6 H38 ;&;9< D 2D3 89 2 &< 7 :9= <43<= H9B32 ;8 8:3 =;73 897 3 8 ;<=:;5 @58 ?: ?;= ;8 8:;8 7 7 328 DD@ 934 92* @=:92H 9< - :2 <3 8 ?;<4= <@22;, 3 8 54 8:3 @>3 & ;57;89;8:;8 9&:3 <3;D:34 @H 2 -;2@;<6 ";24 8:3 2H59=: H 8;?;6=;&356 C6 =3;:3 ?;= 8 7;<D: 2 <8 ?:3<3 :3 @H:8 8 ;<<9B3 2 8:3 &9<=8 & 3C<@;<6 ;&83< =39R92H 8:;8 D986 :3 ?;= 8 H 2 8 9=C 2 ?:949 :3 7 9H:8 <3;D: 2 <;C @8 3C<@;<6 #, =;7;883< &;&;D8 @58 =;?:8:3 2H59=: 43 ;<8 ;24 DD@ 934 <@22;2 -;2@;<6 " C@8 :9= ;<7 6 ?;= = @883<56 ? <2 @8 ;24 :9= =8 <3= = 3289<356 3G:;@=834 8:;8 B48:8:3 C3=8 ?955 92 8:3 ? <54 :3 D @54 2 8 7 B3 ;H;92 8955 3C<@;<6 256 8 > <8 2 ;<D: $" ;24 :;4 2 8 638 =8;<834 & <9=C 2 * 3=;94 8:9= 8 3 <;48 &<' ( ) ! * ;' $$LP,

JF ' $ ' " # ' $ ' ;AFA' E# *

: ;4' C332' =328' 8 ' 8 : 3' ;589D' ? 98 : ' ###' 7 32 ' 8 : 3' 9D>34' <3H9 7 328=' &' 8 : 3' ; < 7 6,' : 3<3' <3 7 ; 9234',8 : 3<3& <3' 256' MN ###' <3H@5 ; <=' ? 98 : 92' 8 : 3' >92H4 7 ,' ' B3<6' D@<= <6' H5 ; 2D3' 4 ? 2' 8 : 3' ; 29=:' ; < 7 6.59=8' &' M#M' 9=' =@&&9D9328' 8 ' = : ?' 8 : ; 8' 8 : 9=' & <D3' ? ;=' &; <' &< 7 ' C392H' 92' ;' = ; 89=&; D8 <6' D 24989 2' & <' 398 : 3<' &&32=9B3' <' 43&32=9B3' 3<; 89 2=, 8' 9=' ? 355' ? <8 : ' ? : 953' 8 ' 5 >' ; 8' 8 : 3' 438 ; 95=' &' 98=' D 7 =989 2,' : 3' 92&; 28<6' D 2=9=834' &' 8 : <33' = <8=' &' 8< = 8:3 6 ; 5' %@ ; <4 ' 8 : 3' 5923' <3H9 7 328=' ; 24' 8 : 3' & <39H2' D < =' 92' ; 29=:' ; 6,' <' ; 92 ' 7 <3' 8 : ; 2' ; 26' 8 : 3<' @< 3 ; 2' =8 ; 83 ' : ; 4' >3 8' @ ' 8 : 3' 54' =3B3283328 : .D328@<6' &; = : 9 2' &' : 9<92H' & <39H2' 7 3<D32 ; <93=' 2' ;' 5 ; <H3' =D ; 539' B32' 92' 8 : 3' 6 ; 5' %@ ; <4' : ; 5&' 8 : 3' 92&; 28<6' ? 3<3' D 7 =34' &' T ; 55 2' %@ ; <4= A' ;' =@<B9B ; 5' &< 7 ' 8 : 3' 4 ; 6' ? : 32' 8 : 3' 38 : 3<5 ; 24=' : ; 4' C332' ; <8' &' 8 : 3' C< ; 4' 4 7 929 2=' &' 8 : 3' ; =C@<H' >92H=,' : 3' 7 32' &' 8 : 3=3' 8 : <33' C ; 88 ; 59 2=' ? 3<3' 2 ' 5 2H3<' 7 ; 9256' ; 55 2=' & <' 35H9@ 7 ' : ; 4' C332' ;' H< @ ' &' <32D : ' 43 ; <8 7 328=' & <' 8 : 3' 5 ; =8' 8 : 9<8332' 63 ; <=,' : 3<3' ? 3<3' %3<7 ; 2=' ; 24' 8 : 3<' & <39H23<=' &' ; 55' = <8=' 92' 8 : 3' <; 2>=' ;=' ? 355' ;=' ; 5 ; <H3' 2@ 7 C3<' &' 2 ; 89B3' ; 29 ; <4=,' : 3<3' ? 3<3' ; 5= ' =9G' <3H9 7 328=' &' ?9==' 7 3<D32 ; <93= B3<' # ###' C ; 6 238= ; 24' 92' 8 : 3=3' 8 : 3' 7 32' 92' 8 : 3,' <; 2>=' 494' <3 ; 556' D 7 3' &< 7 ' ? 98R3<5 ; 24' ; 24' %3<7 ; 26 ' 8 : @H : ' 8 : 3<3' ? ;=' ;' = <92>592H' ; 7 2H' 8 : 37 ' &' =8<; 2H3<=' &< 7 ' ; ' 5 ; 24=' ? : ' : ; 4' T' 53&8' 8 : 39<' D @28<6' & <' 8 : 39<' D @28<6A=' H 4,A' : 3<3' ? 3<3' ; 5= ' 23' 3 ; 598 ; 2' ; 24' 8 : <33' <9=:' <3H9 7 328=,' : 3=3' 5 ; 883<' ? 3<3' =@<B9B ; 5=' &< 7 ' 8 : 3' 4 ; 6=' &' 8 : 3' T' 32 ; 5' ; ? = A' ? : 32' 6 @2H' <9=: 7 32' 53&8' 8 : 39<' : 7 3=' C6' 8 : @=; 24=' 3B3<6' 63 ; <' 8 ' 8 ; >3' =3<B9D3' ? 98 : ' <; 2D3' <' ; 92 ' 92' 8 : 3' : 3' &' H38892H' = 7 3' 4 ; 6' ;' = : 8' ; 8' 8 : 3' : ; 834' <34D ; 8=,' : 3' <3H9 7 328=' C <3' 8 : 3' 2 ; 7 3=' &' 9C3<29 ; ' <5 ; 24 ; ' ; 24' 58 29 ; ' 09,3,' 5=83<P,' : 36' ? 3<3' B3<6 ' 7 @D : ' @243<' 8 : 39<' < 3<' 3=8 ; C59=: 7 328 ' & <' &' 5 ; 83' 63 ; <=' <9=:' <3D<@98=' : ; 4' C3H@2' 8 ' <; 2' = : <8 ' 3B32' ; &83<' 8 : 3' A" MK' 8 : 36' 2 ?' 8 >' =3<B9D3' 92' <; 2D3' ; 24' 2 8' 92' ; 92,' : 3' 8 : <33' <9=:' D < =' 92' M#M' : ; 4' 256' "##' 7 32' @243<' ; <7 =' 92=83 ; 4' &' 8 : 3' ' ? : 9D : ' 8 : 36' = : @54' : ; B3' < 4@D34' 5' ; 24' &' 8 : =3' 8 : 3' 5 ; <H3' 7 ; X <986' ? 3<3' 2 8' <3 ; 5' <9=:' C@8' ? ; 9&=' &' ; 55' 2 ; 89 2 ; 59893=,' &' 5 ; 83' 2 ; 89B3' ; 29 ; <4=' : ; 4' C332' 4<; &834' 92 ' 8 ' >33 ' 8 : 3' <3H9 7 328=' &< 7 ' 4692H' @8,' 2' 8 : 3' 8 : 3<' : ; 24' ? 3' = : ; 55' &924' 80 ; 8' 2 8' 256' 8 : 3' & <39H2' <3H9 7 328=' C@8' 8 : 3' ? : 53' ; 29=:' ; <7 6' ? ;=' =8955' &@55' &' &&9D3<=' &' <9=:' 2 ; 7 3' ; 24' C5 4 ' 8 : 3' = 2=' ; 24' H<; 24= 2=' &' 8 : 3' , <9H92 ; 5' 37 9H<; 28=' &' 8? ' H323<; 89 2=' C ; D>,' 2' ; =8 @2492H' < <89 2' &' 8 : 3' &&9D3<=' ? : ' < =3' 8 ' = 73' 2 83' 4@<92H' 8 : 3' ? ; < C <3,' <9=:' 2 ; 7 3=' ; 24' ? 3<3' : 3<3498 ; <6' = 5493<=' &' & <8@23 ' ? :

M#MS' 1 ' ' ' "

X@=89&934' 8:39<' 3G9=832D3' C6' 8:3' @2?;B3<92H' D @<;H3' ?:9D:' 8:36' ;5?;6=':? 34' 92' ;' 89 7 3' ?:32' C=892;83' 3<33B3<;2D3' ?;=' 8:3' 7 ;92' 7 9598;<6' B9<8@3,' 3' 2334' 256' 7 3289 2' 5;>3' 8:3' 8? ' A 22355=' ;D6' ;<=&9354' A 3955' A ;56' ;: 996' A 2;:@3,' &' 2 23' &' 8:37' =: ?34' 7 @D:' =8<;83H9D;5' =>955' 638' 8:39<' D 2=8;28' <3;4923==' 8 ' &9H:8' ?:9D:' 2 ' =3<93=' &' 43&3;8=' D 654' 8;7 3' D 28<;=8=' B3<6' ?355?98:' 8:3' = 9<9853==' C3:;B9 @<' &';' H 4' 7;26' &' 8:3' ;29=:' H323<;5=,' ' &&9D3<' &' <9=:' C5 4' ?;=' 3B3<' & @24' ;7 2H' 8:3' D ?;<4=' ;24' :;<456' 23' ;7 2H' 8:3' 8<;98 <=),

:3' 832' & <39H2' D < =' &@<29=:34' ;58 H38:3<' ;C @8' I ###' 732' 8 ' 8:3' ;29=:' <3H@5;<' ;<76,' :3' <3=8' &' 8:3' 92&;28<6' ?;=' D 7 =34' &' 8:9<86.&9B3' <3H97328=' &' 8< =' &' 8:3' 5923' &' 8:<33' C;88;59 2=' 3;D:' ;24' 8?35B3' =92H53.C;88;59 2' <3H97328=' &' 59H:8' 92&;28<6,' :36' ?3<3' 8:3 <389D;556' 83<<98 <9;5,59>3' @<' ?2)92&;28<6' &' 8 .4;6' ;24' 7 =856' C <3' 5 D;5' 2;73=' 43<9B34' &< 7' 8:3' < B92D3= ' =8@<9;=' 534 ' =8<37;4@<;';24' =' & <8:,' 55' 8:3' 59H:8' 92&;28<6' D < =' C35 2H34' 8 ' 8:3' 54' >92H4 7=' &' <;H 2';24' ;B;<<3' ?:9D:' ?3<3' 8:3<3& <3' =D;28956' <3 <3=32834' 92' 8:3' 2 732D5;8@<&3' &' 8:3' <492;<6' 5923' <3H97328=,' :3<3' ?3<3';58 H38:3<' L ' C;88;59 2=' &' ;29=:' 92&;28<6' 3GD5@492H' 8:3' & <39H2' 8< =' ;24' 9&' ;55' &' 8:3=3' : ' C332' @ ' 8 ' 8:3' < 3<' 3=8;C59=:7328' &' ML#' 732' 8:3' 8 8;5' ? @54' :;B3';7 @2834' 8 ' "M ###' C;6 238=,' @8' 8:3' =8;83' &' 49= <V H;29R;89 2' ?;=' =@D:' 8:;8';=';' 7;883<' &'&;D8' 8:3<3' ?3<3' 256 ' @243<';<7=,' :3' <3H97328=' ?:9D:' ;53 2':;4' <3J@9=989 234' & <' =3<B9D3' 92' 8:3' <8:' :;4' C332' 7 <3' <' 53=' C< @H:8' @ ' 8 ' ;' ?;<V & 892H' ;24' 3;D:' =:?34' 2' ;2';B3<;H3' □ ' 732' 92' 8:3' <;2>=,' @8' 7;26' &' 8:3' D < =' 92' 8:3' 9283<9 <' &' ;92' 49= 5;634' 8:3' 7 =8' 5;7328;C53' &9H@<3=K' 3,' H,' 8:3' 8:<33' C;88;59 2=' &' 8:3' <3H97328' &' =8<37;4@<;':;4' 256' #' 732' C38?332' 8:37' <4 B;' "I';24' ;B;<<3' M$$ =:?92H' $ #' 732' 8 ' 8:3' C;88;59 2' 92=83;4' &' 8:3' < 3<' ML#,' :3 <389D;556' 8:3<3' =:@54' :;B3' C332' 2 ' 49&&9D@586' 92' >33 92H' 8:37' @ ' 8 ' 8:39<' < 3<' =8<32H8:' ;=' 7;D:923<6' & <' <3D<@9892H' 8:37' :;4' C332' 4@56' < B9434,' / 5@28;<6' 3259=8 7 328' ?;=' 8:3' &9<=8' <3= @<D3K' C@8' ?:32' 8:;8' 494' 2 8' =@&&9D3' 8 ' >33 ' 8:3' <;2>=' &@55' 8:3<3' ?;=';' >924' &' 59 7 9834' 09 2=D<9 89 2' D;5534' 8:3' = ' 8 ',' &;55' C;D>' @ 2,' :9=' D 2=9=834' 92' C;55 892H' & <' 732' 92' 8:3' <3H97328;5' 49=8<9D8' @243<' D3<8;92' <@53=' ?:9D:' ;55 ?34' ;2' 32 <7 @=' 2@7C3<' &' 3G37 89 2= 3,' H,' ;55' =>95534' ;<89=;2=' ;24' ;55

' :3' 7929=83<' A ;<<955' ;24' %323<;5' 092435;2' ?3<3' 8:3' D:93&' 3GD3 89 2=,

* ' D;5534' C3D;@=3' 98' ?;=' <9H92;556' =@ =34' 8 ' 8;>3' 8:3X 8 ' 7;2,

J<‘ ‘ $ ‘ " # ‘ $ ‘ ;AFA‘ E: - L

7 94453.D5;=‘= 8 ? 2=& 5>‘ ? 3<3‘ &<33‘ &< 7 ‘ 8 : 3‘ C@<432 = ‘ 8 : ; 8‘ 8 : 3‘ ; 9.‘ D@58@<;5‘ 5;C @<3<=‘ : ; 4‘ 8 ‘ =@ 56‘ <;D89D;556‘ 8 : 3‘ ? : 53‘ D 2892H328,‘ @C=898@83=‘ ? 3<3‘ ;55 ? 34 ‘ 9&‘ C6‘ ;26‘ 7 3;2=‘ 8 : 3‘ D 2=D<9 8‘ D @54‘ ;&& <4‘ 8 ‘ ;6‘ & <‘ 8 : 3 7 ,‘ : 3‘ D 2=D<9 89 2‘ 8 : 3<3& <3‘ = : @54‘ : ; B3‘ >3 8‘ 8 : 3‘ <3H92 328=‘ @ ‘ 8 ‘ 8 : 39<‘ < 3<‘ =8<32H8 : ‘ ; 24‘ 9&‘ 7 ; 26‘ &‘ 8 : 3 7 ‘ : ; 4‘ 946‘ ;‘ 8 : 9<4‘ &‘ 8 : 39<‘ D 7 53 7 328‘ @243<‘ ;<7=‘ 98‘ ?;=‘ 7 3<356‘ 4@3‘ 8 ‘ 8 : 3‘ H323<;5‘ 43 7 <;59R;89 2‘ &‘ 8 : 3‘ 89 7 3=,‘ 243<‘ % 4 6A=‘ ;4 7 929=8<;89 2‘ 7 236‘ ?;=‘ ;5?;6=‘ ?;2892H ‘ 7 <3‘ 3= 3D9;556‘ =92D3‘ ; 53 2‘ : ; 4‘ C3H@2‘ 8 ‘ 53B6‘ : 9=‘ 7 28 : 56‘ 8<9C@83‘ &‘ N ### ###‘ &<;2D=‘ &< 7 ‘ 8 : 3‘ ;29=:‘ 7 2;<D:6‘ ;24‘ 8 : 3‘ H; =‘ 92‘ 8 : 3‘ <;2>=‘ < C;C56‘ <3 <3=32834‘ 32& <D34‘ 3D 2 7 6‘ ;=‘ ? 355‘ ;=‘ D <<@ 8‘ ;4 7 929=V 8<;89 2,

: 3‘ M# ###‘ 3 7 C 4934‘ 7 95989;‘ ? : 9D :‘ & <7 34‘ 8 : 3‘ <3 7 ;9243<‘ &‘ 8 : 3‘ ;29=:‘ 92&;28<6‘ : ; 4‘ C332‘ @243<‘ ;<7=‘ =92D3‘ M#L‘ 4 92H‘ H3@<9= 2‘ 4@86‘ 8 : 36‘ =337‘ 92‘ 7 ;26‘ <3= 3D8=‘ 8 ‘ : ; B3‘ C332‘ 3J@;5‘ 8 ‘ 8 : 3‘ 5923‘ C;88;59 2=‘ 92‘ 3&&9D932D6,‘ : 36‘ C <3‘ 2;7 3=‘ 43<9B34‘ &< 7 ‘ 8 : 3‘ 8 B2=‘ 92‘ ? : =3‘ 49=8<9D8=‘ 8 : 36‘ : ; 4‘ C332‘ <;9=34 ;4;X R‘ @H ‘ 5D;R;<‘ ;24‘ = ‘ & <8 :,‘ : 39<‘ &&9D3<92H‘ ?;=‘ ;5= ‘ =8<9D856‘ 5 D;5‘ ;55‘ <;2>=‘ C392H‘ 4<;?2‘ &< 7 ‘ 8 : 3‘ 53;492H‘ &;7 9593=‘ &‘ 8 : 39<‘ 49=8<9D8=‘ ;24‘ =337=‘ 8 ‘ : ; B3‘ C332‘ J@983‘ ;=‘ 3&&9D9328‘ ;=‘ 8 : ;8‘ &‘ 8 : 3‘ 5923,‘ <3 B3<‘ 8 : 39<‘ <;2>=‘ ?3< ‘ 2‘ 8 : 3‘ ;B3<;H3‘ 7 @D :‘ &@553<‘ 8 : ;2‘ 8 : =3‘ &‘ 8 : 3‘ <3H@5;<‘ <3H9 7 328= 256‘ 8 ? ‘ C;88;59 2=‘ 92‘ 8 : 3‘ 8 8;5‘ &‘ & <86.8 : <33‘ = : ? 34‘ 53==‘ 8 : ;2‘ #‘ C;6 238=‘ 2‘ ;<;43,

8‘ 9=‘ ? : 32‘ ?3‘ 8@<2‘ 8 ‘ 8 : 3‘ D;B;:6‘ 8 : ;8‘ ?3‘ D 7 3‘ 8 ‘ 8 : 3‘ ?3;>3=8‘ ;<8‘ &‘ 8 : 3‘ ;29=:‘ ;<7 6,‘ : 3<3‘ ?3<3‘ 8 ? 35B3‘ <3H9 7 328=‘ &‘ : 3;B6‘ ;24‘ 8 ? 35B3‘ &‘ 59H : 8‘ : <=3‘ 3;D:‘ ? 98 :‘ ;‘ 2 7 92;5‘ 3=8;C59=: 7 328‘ &‘ ##‘ =;C<3=‘ ? : 9D :‘ = : @54‘ : ; B3‘ H9B32‘ N M##‘ 7 32‘ & <‘ 8 : 3‘ ? : 53‘ & 953,‘ : 3<3‘ ?3<3‘ 256‘ ;C @8‘ ###‘ &&9D3<=‘ ;24‘ 8< 3<=‘ 37V C 4934‘ C@8‘ 8 : 9=‘ ? ;=‘ ;‘ = 7 ;55‘ 43&3D8,‘ ‘ 7 <3‘ <3;5?3;>23==‘ 5;6‘ 92‘ 8 : 3‘ &;D8‘ 8 : ;8‘ 8 : 3<3‘ ?3<3‘ 256‘ " ###‘ : <=3=‘ & <‘ 8 : 3‘ ###‘ 732,‘ 8‘ 9=‘ 49&&9D@58‘ & <‘ 3B32‘ ;‘ ?3;58:6‘ H B3<2 7 328‘ 59>3‘ @<‘ ?2‘ 8 ‘ >33 ‘ 98=‘ D;B;5<6‘ < 3<56‘ : <=34‘ ;24‘ 8 : ;8‘ &‘ : ;<53=‘ /‘ ? ;=‘ 2;8@<;556‘ @2;C53‘ 8 ‘ D 3‘ ? 98 :‘ 8 : 9=‘ 89<3= 7 3‘ 7 9598;<6‘ < C53 7 ,‘ : 3‘ D : ;<H3<=‘ ?3<3‘ 2 8‘ 256‘ 8 ‘ &3?‘ C@8‘ H323<;556‘ &‘ C;4‘ J@;5986‘ 3= 3D9;556‘ 18 : =3‘ &‘ 8 : 3‘ : 3;B6‘ D;B;5<6K‘ &‘ 8 : =3‘ ? : 9D :‘ ?3<3‘ ‘ C3‘ & @24‘ 92‘ 8 : 3‘ <3H9 7 328;5‘ =8;C53=‘ ;‘ B3<6‘ 5;<H3‘ < <89 2‘ ? 3<3 2 8‘ &98‘ & <‘ =3<B9D3,‘ : 32‘ 8 : 3‘ &9B3‘ <3H9 7 328=‘ ? : 9D :‘ ; 53 2‘ 437;2434‘ & <‘ 8 : 3‘ 3GV 34989 2‘ 8 ‘ 32 7 ;9A>‘ : ; 4‘ C332‘ < B9434‘ ? 98 :‘ NL#‘ : <=3=‘ 3;D:‘ ;24‘ =328‘ &&‘ 8 : 3 7 @28=‘ &‘ 8 : 3‘ <3=8‘ &‘ 8 : 3‘ ;<7 6‘ ? 3<3‘ 92‘ =@D :‘ ;‘ 43 5 <;C53‘ =8;83‘ 8 : ;8‘ = 7 3‘ D < =‘ : ; 4‘ 2 8‘ 8 : 3)‘ ? 3<‘ 8 ‘ : <=3‘ 23.8 : 9<4‘ &‘ 8 : 39<

"L ‘ ‘ - ‘ ‘ M#M W-

D 28<;D834‘ ;‘ 437 <;59R;89 2‘ ?:9D:‘ 8:36‘D @54‘ 23B3<‘=:;>3‘ &&,‘ @8‘,
H<;2892H‘ ; ‘ 8:9=‘ 98‘ 9=‘ =8955‘97 ==9C53‘8 ‘ 3G 5;92‘ 8:3‘ D 2=9=8328‘
79=C3:;B9 @<‘ &‘8:3=3‘3B;=9B3‘=J@;4< 2=,‘ :3,‘ &&9D3<=‘2 ‘4 @C8‘
:;4‘;‘:;<43<‘8;=>‘92‘ <H;29R92H‘8:39<‘23?‘53B93=‘8:;2‘8: =3‘ &‘8:3‘
92&;28<6‘;24‘;<89553<6‘C@8‘98‘9=‘D@<9 @=‘8:;8‘8:36‘=: @54‘23B3<‘
:;B3‘=@DD33434‘92‘53;<292H‘8:39<‘C@=923==‘3B32‘;&83<‘& @<‘ <‘&9B3‘
63;<=‘ &‘?;<,

:3‘;<89553<6‘ &‘8:3‘ ;29=:‘;<76‘ 2‘8:3‘ 8:3<‘:;24‘3;<234‘
2‘8:3‘?: 53‘;‘H 4‘<3 @8;89 2,‘ :9=‘?;=‘2 8‘8:3‘<3=@58‘ &‘< 3<‘
<3 ;<;89 2,‘ , :32‘8:3‘=8<@HH53‘C3H;2‘98‘D 2=9=834‘ &‘8:9<86.& @<‘
C;883<93=‘ &‘&9354‘;<89553<6‘=9G‘ &‘: <=3‘;24‘8?3286. 23‘H;<<9= 2‘
C;883<93=‘> ! ‘ / ?‘?98:‘;‘8 8;5‘ &‘N N##‘ 732,‘ <86‘
C;883<93= 8:;8‘9=‘8 ‘=;6‘$L#‘H@2=‘ <‘= 73?:;8‘53==‘& <‘92‘= 73‘
D;=3=‘8:3<3‘=3373‘8 ‘:;B3‘C332‘ 256‘& @<‘92=83;4‘ &‘=9G‘ 93D3=‘92‘8:3‘
C;88396 ?;=‘;DD <492H‘8 ‘8:3‘=8;24;<4‘ &‘ M#M‘;‘7349 D<3‘;55 ?V
;2D3‘8 ‘;2‘;<76‘ &‘ I# ###‘732‘ 256‘;C @8‘8? .8:9<4=‘ &‘?:;8‘98‘
=: @54‘:;B3‘C332‘ @8‘8:9=‘?;=‘2 8‘8:3‘? <=8,‘ 34@D892H‘& @<‘
&@556.: <=34‘C;883<93=‘?:9D:‘:;4‘C332‘8;>32‘ &&‘C6‘ ; 53 2‘8 ‘
327;<> ‘8:3<3‘<37;9234‘92‘ ;92‘&& @<‘:<33‘;24‘8:9<86.8? ‘&9354‘
C;883<93=,‘ :3=3‘?3<3‘ <;D89D;556‘@2;C53‘8 ‘7 B3‘& <‘8:36‘?3<3‘
;57 =8‘3289<356‘43=898@83‘ &‘: <=3=,‘ <‘8:3‘$ N‘H@2=‘;24‘8:39<‘
D;9== 2=‘8:3<3‘?3<3‘ 256‘92‘ :;24‘L##‘4<;@H:8‘ ;297;5=^ :32‘
8:3‘?;<‘C3H;2‘8:3‘;<89553<6‘:;4‘8 ‘<3J@9=989 2‘;24‘7 <3‘ <‘53==‘
8<;92‘I ###‘: <=3=‘ <‘7@53=‘C3& <3‘8:36‘D @54‘7 B3‘&< 7‘8:39<‘
C;<<;D>=^ ‘4 ‘2 8‘>2 ?‘;996‘&;D8‘8:;8‘955@=8<;83=‘C3883<‘8:3‘=8;83‘
&‘ ;29=:‘;4 7929=8<;89 2‘@2438‘8:3‘<@53‘ &‘% 4 6,‘ :3‘<;9=X2H‘
&‘8:3‘H<3;8‘92=@<<3D89 2;<6‘;<7 93=‘92‘8:3‘=@7 73<‘ &‘ M#M‘ @H:8‘
8 ‘ ;<B3‘534‘8 ‘ ;2‘32 <7 @=‘92D<3;=3‘8 ‘8:3‘;<89553<6‘;<7 ‘C@8‘
8:3‘8<;9234‘732‘?3<3‘=‘&3?‘8:;8‘8:3‘H<3;83=8‘49&&9D@586‘?;=‘& @24‘
92‘ <H;29R92H‘23?‘C;883<93=,‘ 738:92H‘?;=‘4 23‘C6‘8@<292H‘8:3‘
7;<923‘;<89553<6‘ &‘8:3‘&5338‘928‘5;24‘8< =‘;24‘8:3<3‘?3<3‘;‘&3?‘
:@24<34=‘ &‘8:3‘7 95989;‘?:‘ ‘:;4‘C332‘8<;9234‘8 ‘? <>‘H@2=,‘ @8‘
8:3‘ &&9D3<=‘23D3==;<6& <‘8:3‘8<;9292H‘;24‘ &&9D3<92H‘ &‘23?‘C;883<93=‘
?3<3‘≠‘=D;<D3‘8:;8& <‘7;26‘7 28:=‘2 ‘&<3=:‘& <D3=‘ &‘8:3‘;<89553<6‘
;<7‘D @54‘8;>3‘8:3‘&9354,‘ 2‘8:3‘;@8@72‘ &‘ M#M‘;8‘8:3‘8973‘
&‘8:3‘C;8853=‘ &‘ = 92 =;‘;24‘ @435;‘9&‘?3‘D;<3&@556‘;44‘@ ‘8:3

* ; 53 2‘:;4‘;2‘943;5‘ < <89 2‘ &‘&9B3‘H@2=‘ 3<‘ ### 732,‘ @8‘;=
?3‘=:;55=: ?‘92‘8:3‘23G8‘D:; 83<‘?:953‘43;592H‘?98:‘8:3‘ <32D:‘;<793=‘:3‘
23B3<‘=@DD33434‘92‘ <3;D:92H,;268:92H‘59>3‘8:9=‘=8;24;<4‘92‘8:3‘ 3292=@5;,‘
38‘:9=‘ 2328=‘?3<3‘;5?;6=‘? <=3‘ &&,

2@7C3< &'H@2=' C< @H:8'928 .';D89 2'C6'8:3'&9B3';<793=' &'%;59D9;
' =8<37;4@<;' <;H 2'8:3'* 328<3A'09,3,' 24;5@=9;';24' ;=8953P'
,;24' ;8;5 29;'?3'4'2 8'&924';' 93D3'7 <3'8:;2'8:3'$L#'?:9D:
* 3G9=834';8'8:3' @8C<3;>' &'8:3'?;<,' :;8'9='8'=;6'8:3' ;29;<4='
:;4'<;9=34' '23?'53B93=' &'92&;28<6'?98: @8';26'D <<3= 2492H'
3G832=9 2' &'8:3';<89553<6';<7,' @<92H'8:3'D;7 ;9H2'8:3'D 24@D8'
&'8:3,'D < ='=337=' 2'8:3'?: 53'8 ':;B3'C332'B3<6'H 4'D 7 ;<34'
?98:'8:;8' &'8:3' 8:3<';<7=,' :9=' ?;=' 8 'C3'3G 3D834';=' 8:36'
?3<3' 54'= 5493<='8 ';'7@D:'H<3;83<'3G8328'8:;2'398:3<'8:3'92&;28<6'
<,'8:3'D;B;5<6,' :36'=337'8 ':;B3';88;9234',;'&;9<'=>955'?98:'8:39<'
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&'H@223<='D@8'4?2'<'C;6 238834'B3<'8:39<' 93D3='=354 7' &';'
H323<;5 C 58'8 '8:3'<3;<;' <'8:9='B3<6'<3;= 2'8:3' 3<= 2235' &'
8:3'C;883<93='=@&&3<34'83<<9C56K 3B3<6'43&3;8'73;28'8:3'D; 8@<3' &'
= 73'4 R32='&'H@2='; 24'8:3'D@8892H'@ ' &'8:3'732'?: '=3<B34'
8:37,' 8'?;=';=' 7@D:';=' 8:3'H B3<2732 8'D @54'4 '8 '>33 '@ '
;' 7 43<;83' 2@7C3<' &'C;883<93='C6'=@ 5692H' 23?'H@2=';24'
;7;5H;7;892H'8:3'<372;28='&'8: =3'?:9D:';;4'C332';8'8:3'&< 28,'
;D:'C;8D:' &'5 =8'C;8853='92' M#M. #'328;9534'8:3'5 ==';24'D 2V
=3J@328'<3D 2=8<@D89 2' &'8:3';<89553<6,' &'92'= 983' &'8:9='?3'
=354 7':3;<'D 7 5;928=';=' 8 '98='D 24@D8'98' 7@=8'C3'8;>32';='
;':9H:'D 7 597328'8 '8:3';<7,' @8';=' 5 2H';=' ;29=:'H323<;5='
3<=9=834'92' &9H:892H' 98D:34' C;8853=' ;24' H38892H' 8:39<';<793='
49= 3<=34';'= 594' < <89 2' &';<89553<6'8 '92&;28<6'D @54'23B3<'
C3'3=8;C59=:34,' 8=';B3<;H3'=8<32H8:'7;6'C3'H@3==34'&< 7'8:3'&;D8'
8:;8';8' 5C@3<;'8:3'C3=8';<76'8:;8' ;92'8:32' ==3==34' @8'92'
5923' N I## 732'?98:' 256'& @<8332'H@2='53==8:;2' 23'H@2' 3<'
8: @=;24'732 ?:953' ; 53 2'0;='?3':;B3';5<3;46'2 834P'C3593 4'
8:;8'&9B3' 3<'8: @=;24'?;=' 8:3'943;5';24' &832'7;2;H34'92';D8@;5'
&;D8'8 ':;B3'8:<33,' 2'8:3'5;883<'63;<=' &'8:3'?;<'8:3' 93D3='?3<3'
;57 =8';5?;6=' 49*;?2'C6' 7@53=' 6 >34''8;2437.&;=:9 2';24'2 8'
<94432'C6'4<9B3<=' C@8'H ;434'C6'732'?;5>92H';8'8:39<'=943 8:3'
=5 ?3=8';24' 7 =8'@2=;89=&;D8 <6'& <7' &' 8<;D89 2'8:;8'D;2'C3'
97;H9234,' 32D3'D;73'92'H<3;8' ;<8'8:39<'92;C95986',8' 7;2V
3@B<3,

&'32H9233<=' ;92'92' M#M':;4' N"' &&9D3<=' 49= 3<=34' B3<'8:3'
>92H4 7,' :3'D < =';;4'2' < 3<';2>';24'&953,' @8'8:3<3'?;=
";'<3H97328' &'=; 3<=' '=8< 2H'?:9D:'?;=' &&9D3<34'&< 7'8:3'
32H9233<=,' :3<3'?;=' 2' ;<76'=3<B9D3'D < =' 2' 7 9598;<6'8<;92'
2' <H;29R34'D 7 79==;<9;8' &';26'>924,' :32' 7 B92H';C @8

J?' ' $ ' " # ' ' ;AFA' E: - /

;' ;29=:' ;<76' 43 32434' 398:3<' 2' D 28<;D8 <=' ?:' @243<8 >' 8 ' < B943' : <=3=' ;24' ?;H 2=' 4<9B32' C6' D9B959;2=' <' 7 <3' &<3V J@32856' 2' 8:3' D;=@;5' =?33 92H' 92' C6' <3J@9=989 2' &';55' 8:3' 7@53=' G32' ';24' D;<8=' &' 8:3' @2:; 6' 49=8<9D8' 92' ?:9D:' 98' ?;=' 3<;892H,' 2' 8:9=' <3= 3D8' X;=' 92' =' 7 ;26' 8:3<=' ;92' ?;=' =8955' 92' 8:3' 94453' H3=' :3' &;D8' 8:;8' 8:3<3' ?;=' 2' 3<7;2328' ;<<;2H37328' &<' < B9492H' &<' 8:3' & 4' &' 8:3' ;<76' 9=' 32 @H:' 92' 98=35&' 8' ;DD 978' &<' 7 ;26' &' 98=' 49=;=83<=,' &' 59>3' 8:3' <989=:' 8:3' ;29;<4=' :;4' ==3==34' 7 236' 8' ;6' &<' ?:;8' 8:36' 8 >' 8:92H=' 79H:8' :;B3' ?<>34' =73?:;8' C3883<,' <' 9&' 59>3' 8:3' <32D:' 8:36' :;4' ==3==34' ;2' <H;29R34' 79598;<6' 8<;92' ';24' 2' =D<@ 53=.8:36' 79H:8' :;B3' D 2V 8<9B34' 8' 'H38' ;5 2H' ;8' 8:3' D =8' &' @883<56' <@9292H' 8:3' D @2896.=943,' @8' ;=' 8:92H=' =8 4' 43 32492H' 2' 92D;;C53' D9B95' D 7 79==;<93=' ;24' 8:3' @2?95592H' D 28<9C@89 2=' &' 8:3' 5 D;5';@8: <9893=' 8:36' ?3<3' H323<;556' 2' 8:3' 34H3' &' =8;<B;89 2,' 7389 73=' 8:36' H 8' B3< 8:3' 34H3';24' 8:32' 8:3';<76' 92' = 983' &' 8:3' < B3<C9;5' &<@H;5986' &' 8:3' ;29=:' = 5493<' =97 56' 49= 3<=34,' 8' 9=' &;9<' 8' 8:3' 732' 8' =;6' 8:;8' 8:36' H323<;556' =8<;HH534' C;D>' 8' 8:3' &< 28' = 23<)' <' 5;83<' ?:32'),8:36' :;4' =@DD33434' 92' &95592H' 8:39<' =8 7;D:=';24' H 8' 92D < <;834' 92' 8:39<' ?2' <,= 73' 8:3<' <3H97328,' 8' 9=';94' 8:;8' C6' 8:3' 324' &' 8:3' ?;<8:3<3' 3<3' = 5493<=' ?:';:;4' 92' 8:39<' &;=:9 2' =3<B34' 92' ;=' 7 ;26' ;=' 832' 49&&3<328' D < =' 4@<92H' 8:3' =9G' 63;<=' &' 8:3' =8<@HH53,

@7 792H' @' 8:3' &;@58=' &' 8:3' ;29=:' ;<76' 98=' 43 53834' C;88;59 2=' 98=' =7 ;55' ;24' 92D 7 38328' D;B;5<6' &<D3' 98=' 92=@&&9D9328' < <89 2' &';<89553<6' 98=' @883<' ?;28' &' D 7 79==;<9;8' ?3' &924' 8:;8' 98=' 7 ;92' = @<D3' &' ?3;>23==' ?;=' 8:;8' ?:953' 8:3' ?;<=' &' 8:3' <32D:' 3B 5@89 2' :;4' 924@D34' ;' 8:3' 8:3<' =8;83=' &' @< 3' 8' B3<:;@5' 8:39<' 7 9598;<6' <H;29R;89 2' ;24' 53;<2' = 738:92H' &<' 7' 8:3' 738:' 4=' &' 8:3' <32D:' ;92' ?;=' =89 ' = ' &;<';=' 98=' ;9A76' ?;=' D 2D3<234' 92' 8:3' 794453' &' 8:3' 39H:83328:' D3288@6,' :3' 2;89 2;5' 837 3<;7328' ?98:' 98=' 383<2;5' <353H;89 2' &';55' 8<@C53= 73' <3& <7=' 8' 8:3' 7 << ?' ?;=' 2' 4 @C8' 5;<H356' 8' C5;73,' @8' % 4 6' 8:3' ;55. ?3<&@5' &;B @<983' ?:';:;4';5=' C332' D 7 7 ;243<.92.D:93&' &' <' 8:3' 5;=8' =3B32' 63;<=' 7 @=8' 8;>3' 8:3,' 7 ;92' <3= 2=9C95986,' &' :3' :;4' D: =32' :3' ==3==34' 8:3' ?3<8' D:;2H3' 3B3<68:92H' ;24' 92' = 73' ?;6=' :3' :;4' 344534' ;' H 4' 43;5' ?98:' 438;95=' D:;2H92H' 8:3' @2% <7=';24' 92D<3;=92H' 8:3' 2@7C3<' &' C;88;59 2=' 92' 3;D:' <3H9' 7328,' @8' 8' 7 ;>3' 8:3';<76' 3&&9D9328' :3' :;4' 4 23' B3<6' 598853K' &:3' &;D8' ?;=' 8:;8' 8:3' D 7 7 ;243<.92.D:93&' ?;=' J@983' 9H2 <;28' &

8:3 7 9598;<6 2334= ;24)832432D93= &8:3 4;6K ;55 :9= >2 B534H3 &8:3 ;<76 ?;= H;9234 ?:953 D;< 38.= 5493<92H 92 8:3 <;2>= &8:3 <6;5 C 46.H@;<4,. 8 ?;= 2;8@<;5 8:;8 8:3 >924 & &&9D3<= ?: D 7 732434 8:37=35B3= 8 :9= :;@H:86 ;249H2 <;28 7924 =: @54 C3 8: =3 ?: ?3<3 7 =8 <3;46 8 4 *:97 : 7;H3 8 ?92>;8 :9= 3D@5;89 2= 8 D 24 23 :9=X C= ;24 8 <3&<;92 &< 7 ? <<692H :97 & <8:3 7 236 233434 & <<3& <7= ;24 <3 ;9<=, < 7 89 2 ?;= ?: 556 ;<C98<;<6 ;24 ?;= 3289<356 92 8:3 &;B @<983A= :;24=, : =3 ?: ?3<3 <3 ;<34 8 C ?4 ?2 8 :97 < = 3<34K 8: =3 ?: =: ?34 ;26 C;D>C 23 < B328@<34 2 <37 2=8<;2D3= ?3<3 =:35B34, &83< ; &3?63;<= &8:9= =6=837 98 ?;= 2;8@<;5 8:;8 ;55 <;2>= &8:3 ;<76 C3D;73 437 <;59R34 =92D3 2 8 73<98 C@8 8:3 8;5328= &8:3 D @<893< ;24 8:3 &5;883<3< ?3<3 8:3 =@<3 < ;4 8 < = 3<986, 32D3 98 D;73 8 ;==8:;8 ?:32 8:3 92=@<<3D89 2 C3H;2 8:3 53B35 &7 9598;<6 ;C95986 ;8<9 89=7 ;24 9283H<986 ;7 2H 8:3 :9H:3< <;2>= &8:3 ;<76 ?;= B3<6 5 ?, :3<3 ?3<3 ; &3? ? <8:6 732 59>3 ;=8;2 = ;24 ; 7;2; 92 &&9D3= &82 9=8 C@8 ; 7@D: H<3;83< < <89 2 & % 4 6A= < 8 Hf, 23 D;22 8 D 24 23 8:3 =: D>92H ?;6 92 ?:9D: 4@<92H 8:3 &9<=8 4;6= &8:3 ?;<8:3 @5;D3 ;24 8:3 <;2>= ;24 &953 &8:3 ;<76 @2 9834 8 7@<43< = 7;26 &&9D3<= 92 :9H: 5;D3 59>3 ;2H:93<9 8:3 ; 8;92.%323<;5 &%;59D9; <<3 435 <3=2 8:3 ; 8;92.%323<;5 & =8<37;4@<; ;24 5;2 ?: D 7 7;2434 ;8 ;49R, @8 8:3 3G 5;2;89 2 & 8:3 ;8< D9893= 9= =97 53K 8:3 7@5898@43 ?3<3 <3=32892H 8:3 <3=@58= &8:3 5 2H ;47929=8<;89 2 &%4 6A= D<3;8@<3= ;24 &355 @ 2 =@D: &8:37 ;=*<3&@=34 8 8:< ?92 8:39< 5 8 97 7349;8356 ?98: 8:3 92=@<<3D89 2, :3 7@<43<34 732 ?3<3 0<9H:856 < ?< 2H56P =@= 3D834 398:3< &;2 92832 89 2 8 =@C798 8 - =3 : 2; ;<83 < &; 43=9H2 8 :;2H C;D> ?;98 2 8:3 8973= ;24 7;>3 8:39< 43D9=9 2 256 ?:32 98 =: @54 C3D 73 CB9 @= ?:9D: ;94 C3883< ;8<9 89=7 < =3<B95986, :3 3 53 :;4 D 2=943<;C53 X@=89&9D;89 2 92 8:3 &;D8 8:;8 ; B3<6 5;<H3 < <89 2 & % 4 6A= < 83H3= 3= 3D9;556 &8: =3 ;8 ;4<94 494 =?3;< 7;H3 8 8:3T928<@43< 92 <43< 8 >33 8:39< 5;D3= ;24 32=9 2=, :36 ?3<3 8:3 C;=3 &8:3 79=3<;C53 ;<86 & 8 ?:9D: C< @H:8 = 7@D: 49=H<;D3 2 ;92, :3 79=H@9434 D =7 598;2 59C3<;5= ?: X 9234 8:37 ?3<3 7@D: 8:3 =7;553< :;5& &8:3 8<;98 <. &;D89 2,

% 4 6 ;24 :9= D59J@3 8:3<3& <3 7@=8 8;>3 8:3 7;92 <3= 2=9C95986 & <8:3 =8;83 &43D;6 ;24 D <<@ 89 2 92 ?:9D: 8:3 ;29=: ;<76

;

4;<3 c C@8 8:3 ; 3;<;2D3 &8:39< &&9D3<= ;8 2D3 C3= >3 8:39< 2 8 C392H &98 8 53;4 8:37 92 8:3 ;8837 8, :36 2 8 256 494 2 8 5 >49>3 = 5493<= C@8 3B32 2 8 59>3 H32853732 ;24 9 ?;= 49&&9D@58 &9< 7 8:39< 73;2 ;24 ;CX3D8 ; 3;<;2D3 ;<89D@5;<56 ;7 2H8:3 92&;28<6 8 H@3== ?:;8 D5;== &= D9386 8:36 D @54 :;B3 C332 8;>32 &< 7 , 3?8< = ?955 C3:;B3 ?355 9&8:=3 8 ?: 7 8:36 =: @54 5 >@ ;<3 @243=3<B92H <3= 3D8 C3=943=8:39< H323<;5 923&&9D932D6 ?3 & @24 8:39< 7 <;5 &33592H 49&&3<328 &< 7 ?:;8 ?3 3G 3D834, ;< &< 7 3B92D92H 43B 89 2 < 3B32 D 7 7 2 D @<;H3 92 8:39< D @28<6A= D;@=3 8:36 ?3<3 B3<6 &832 H@9586 9249B94@;556 ;24 D 553D89B356 &49=H<;D3&@5 D ?;<49D3, 3 : @<56 <3H<38834 8:;8 8:3 <3B 5@89 2 :;4 2 8 DD;=9 234 ;7 <3 D 7 5383 8 A & = D9386 = ;= 8 C<92H & <?;<4 &<3=:;24 B9H < @= 8 328 &< 7 ;55 D5;==3=, /3<6 &3?& 8:3 <3H@5;< 7 9598;<6 =: ?34 8:37 V =35B3= ? <8:6 &D 7 7 ;24, 24334 ?98:8:3 3GD3 89 2 &;&3? =35&.7;43 = 5493<=;7 2H8:3 %@3<955;= ?: :;4 <9=32 &< 7 ;7 2H 8:3 &;<73<= ;24 3;=;28<6 98 ? @54 C3 :;<4 8 928 @8 ; ;29=: &&9D3< ?: =3 929 2 2 8:3 7 =8 8<9B9;5 7 9598;<6 =@CV X3D8 ?;= ? <8: C392H ;=>34, 3 =;?54 C3= 8834 H323<;5= ?: =3 ;<793= ?3<3 & <734 2 C= 5383 <92D9 53= &8:3 * &;43D<3 98 H B3<2732 8, 8:9= ?;= ;4434 C5924) <943 ;24 B;2986, < &= &92&3<9 <986 D @54 32 8:39< 363= ;24 8:36 <@=:34 &< 7 23 3<< <;24 79=& <8@23 8 ;2 8:3< C323&9892H C6 2 3G 3<932D3 .;24 49=4;9292H 8 =33> ;94 ;24 97 < B37328 A W , .],

B 9D3 &< 7 8:3 <;2>=, 3<H3;28 @<833= &8:3 9&53 <9H;43 H9B3= 8:3 =;73 943;92 49&&3<328 ? <4=, [,

T =8 &8:3 ;29=: &&9D3<= ; 3;<34 8 C3 @883<56 @2&98 ;24 @2;C53 8 D 7 7 ;24 8:39< 732, :36 :;4 ;55 8:3 <943 ;<< H;2D3 ;24 =35&.=@&&9D932D6 &8:3 C3=8 &&9D3<= 92 8:3 ? <54 ?98:8:3 B3<6 53;=8 &; <3832=9 2 8 : ;B3 ; :9H: 929 2 &8:37=35B3=, 8 9= 8<@3 8:36 ?3<3 2 8 ;55 ;59>3 C@8 8:3 7 ;X <986 ?3<3 8:3 7 =8 :;@H:86 ;24 ;8 8:3 =;73 8973 8:3 7 =8 D 2837 89C53 D<3;8@<3= 92 8:3 =:; 3 &&&9D3<= 8:;8 3B3< C3:354 A 0 ; #"],

=;7;883< &&;D8 8:3 D5;== &&&9D3<= 92 ;92 ? &95534 @ 92 8:<33 49&&3<328 ?;6=, 23.8:9<4 &8:37 ?3<3 C6 D@=8 7 4<;?2 &< 7 8:3 <;2>=, 2 ;2 ;<76 <;9=34 C6 D 2=D<9 89 2 &< 7 ;55 =8<;8; &= D9386 3GD35532 8 &&9D3<=)D;2 C3 < D@<34 92 8:9= ?;6, @8 92 23 7 ;9256 D 2=9=892H &8:3 53;=8 ;479<;C53 ;<8 &8:3 =@< 5@=

M##M] A #

C;88;59 2=' D;9<934' 98' @8' 92' 8:<33' 49&&3<328' 897 3=' ;24' ?98:' ?: 556' 49=892D8' 438;95=' &'3G3D@89 2,

8' 256' ?;=' 8:3' ;29=:' ;<76' 9249&&3<32856' &&9D3<34' C@8' 3B32' &'=@D:' &&9D3<=' ;=' 98' ==3==34' 8:3<3' ?3<3' 2 8' 32 @H:,' 2' 8:3' 54' 5923' <3H97328=' 8:3<3' =: @54' :;B3' C332' =3B3286' 8' 3;D:' D < =' 9,3,' $ L #' 8' 8:3' # ' C;88;59 2=' &' 8:;8' ;<7,' @8' % 4 6' :;4');55 ?34' 8:3' 2@7C3<=' 8' =92>' 8' $#,' :32' 8:3' 92=7)<3D89 2' C< >3' @8' 8:3' B;D;28' 5;D3=' :;4' 8' C3' &95534' ;24' 7;26' <3H97328=' <3D39B34' ;8' 8:3' =;73' 7 7328' 8?3286' <' 8:9<86' =@C;583<2=' 8;>32' &< 7' D9B95' 59&3' ;24' D 7 538356' 43=898@83' &' 7 9598;<6' 8<;9292H,' 97 95;<56' 8:3' 7 95989;' @H:8' 8' :;B3' :;4' M##' &&9D3<=' ;24' 256' ==3==34' $##' ?:32' 8:3' ?;<C3H;2,' :3' B;D;2D93=' ?3<3' &95534' C@8' ?98:' <;?' ;24' &832' 9249&&3<328' 7;83<9;5,

@D:' ?3<3' 8:3' &&9D3<=' ?98:' ?: 7' 8:3' <989=:' ;<76' :;4' 8' D . 3<;83,' :3<3' 9=' 2' 49=H@9=92H' 8:3' &;D8' 8:;8' &< 7' 8:3' &9<=8' 8:3' ;5593=' D @54' 2 8' H38' 2' 8 H38:3<,' 2' 8:3' 3;<593<' 63;<=' &'B:3' ?;<' 8:3<3' ?3<3' = 73' 92D94328=' 8:;8' :; 3234' ?:953' 8:3' 8< =' &' 8:3' 8? ' 2;89 2=' 5;6' 8 H38:3<' ?:9D:' @<' D @28<6732' D @54' 23B3<' & <H9B3' <' & <H38,' 3' 2334' 256' 73289 2' 8:3' 7942 9H:8' ;29D' 92' @3=8;A=' ;<76' C2' 8:3' 3B3' &' ;5;B3<;' ?:32' # ###' 732' <;2' ;?;6' ?98:' @8' :;B92H' :;4';'=:' 8' &9<34' ;8' 8:37' ;24' 8:3' D ?;<456' C3:;B9 @<' &' ;' 32;'92' M ' ?:32' :3' <3&@=34' 8' ;94' %<;:;7';8' 8:3' C5 46' 598853' C;8853' &' ;< ==;,

:3' =8<9D8@<3=' &' 35592H8 2' ; 93<' ;24' 8:3' <3=8' ?3<3' @2V 4 @C83456' ?355' 43=3<B34$;24' 638' 98' 9=' 3;=6' 8' C3' 8 ' :;<4' 2' 8:3' ;29;<4=,' 8' D:;2D34' 8:;8' @<' D @28<6732' 494)' 2 8' H38' ;' &;9<' <8@2986' &' C=3<B92H' 8:39<' ;5593=' @243<' &;B @<;C53' D 24989 2=$ &' 8:3' 54' <3H@5;<' ;<76' 8:;8' & @H:8' ;8' ;6532' <' Q 7 R;' 8:36' 23B3<' H 8' ;' H597 =3,' 8' :;4' C332' <;D89D;556' 43=8< 634' C3& <3' ?3' D;73' @ 2' 8:3' &9354,' ;' 7;2;A=' =8;<B92H' : <43=' ;24' @3=8;A=' 3B;=9B3' ;24' 437 <;59R34' C;88;59 2=' ?3<3' 8:3' =;7 53=' &< 7' ?:9D:' 8:3' ?: 53' ;29=:' ;<76' ?;=X@4H34,' 2' 8:3' ;5;B3<;' D;7 ;9H2' 8:3' &9<=8' 92' ?:9D:' 2H59=:' ;24' ;29=:' 8< =' =8 4' =943' C6' =943' 8:3<3' D;2' C3' 2 ' 4 @C8' 8:;8' 8:3' 5;883<' 0?98:' &3?' 3GD3 89 2=P' C3:;B34' 92' 8:39<' B3<6' ? <=8'=8653,' :36' &832' 494' 7 @D:' C3883<$ C@8' &3?' 2H59=:7 32' :;4' 8:3' D:;2D3' &' ?;8D:92H' ;' 43&32D3' 59>3' 8:;8' &' ;<;H ==;' <' %3< 2;,' /3<6' &3?' C=3<B3<=' &< 7' @<' =943' =;?' ;268:92H' &' 8:3' :3< 9D;556' C=892;83' <3=9=8;2D3' &' 8:3' ;8;5 29;2' B ' ;24' ' :;2D3' 8:<3?' 92' @<' ?;6' @3=8;' ;24' ;' 32;' ;24' 7;R' ;=' 8i 3=' &' 3292=@5;<' H323<;5=' ;24' &< 7' 8:37' 8:3' <3=8

?3<3X@4H34, 23 =@ =3= 8: ;8 8:3 ;29;<4= ;= ; 2;89 2 ;<3 43=898@83 &; 55 7 9598;<6 J@;59893=, :36 7 ;43 H 4 = 5493<= 32 @H:92*8:3 ;=8 ;24 7 ;6 4 = 92 8:3 &@897 3K C@8 ?:32 ;&83< D328@<93= &9:83 3D8@;5 ;24 5989D;5 8 < <8:36 ?3<3 D;5534 @ 2 8 &9H:8 & <8:39<2;89 2;5 3G9=832D3 8:36 ?3<3X@=8 37 3<H92H &< 7 =@CX3D89 2 8 23 &8:3 7 =8 ? <8:53== ;4B328@<3<= ;24 23 &8:3 7 =8949 89D>92H= ?: 7:9=8 <6::;=>2 ?2, :;<53= /;24% 4 6 ;DD @28 & <;2 3G8<; <492;<6 ;7 @28 &8:3 43D<3 98@43 &8:3 7 2;<D:6 ;24 8:3 437 <;59R;89 2 &98= ;<7 6,

8 9= 7 <3X@=8 8 ;479<3 8:3 D 2=8;2D6 ?98: ?:9D: ;2;89 2 = :;249D; 34 3<=9=834 92 8:3 : 353== =8<@HH53 8:;2 8 D 2437 2 98 & <8:3 92D; ;D986 &98= H323<;5= 8:3 9H2 <;2D3 &98= &&9D3<= 8:3 @2=83;4923== &98=<;?53B93=, & ;92 :;4 C332 ;&9<=8.<;83 7 959V 8;<6 ?3<8:3<3 ? @54 :;B3 C332 D 7 ;<;89B356 598853 7 3<98 92 8:3 =9G 63;<=8<@HH53 ?:9D: =:3 ?;H34 ;H;92=8 2; ;<83, :32 ?3 D 2=943< :3< ?3;>23== ;24 :3< 49= <H;29R;89 2 ?3 &924 @<=35B3= 7 <3 92D59234 8 ? 243< ;8 :3< 3<=9=832D3 8:;2 8 =233< ;8 :3< 79=:; =,

M##M]

;<C< >3 @8 ;H 4 7 ;26 <3H97328= :;4 ;5<3;46 D 7 53834 8:39<& @<8:&9354.C;88;59 2 ;24 =3B3<;5 &8:3=3 23?D < =;<38 C3 & @24 92 8:3 < 55= &8:3 ;<793= ?:9D: :;4 3283<34 ;92, :3 7@589 59D;89 2 &C;88;59 2= :;4 C332 ;DD 7 ;2934 C6 ;<34@D89 2 &8:39< 9249B94@;5 =8<32H8:K 4 (B2 8 3C<@;<6 M#M 8:3<3 ?3<3 2923 D 7 ;293= 8 3;D: @298 ;24 -97 8A= D < = :;4 C;88;59 2= &";=8<32H8: &##<$##C;6 238b, @8 8: =&3 ?:9D: D;73 5;83< ?3<3 =9G.D 7 ;26 C;88;59 2= ?98: ;=8<32H8: &ML#C;6 238= ?:32 ;8 8:39< &945 3=8;C59=: 7328S

55 8:3 8< = &?:9D: ?3 :;B3 :98:3<8 = >32 ?3<3 2;89B3 <32D:732, @8 8:36 494 2 8 D 7 =3 C6 ;26 73;2= 8:3 ?: 53 &8:3 92&;28<6 ?:9D: 8:3 7 3< <49= ;8D:34 928 ;92 C38?332 D8 C3< M# ;24 ;6 M#M, DD <492H8 :9= @=@;5 D@=8 7 :3 37 5 634 H<3;8 2@7C37 &;@G959;<93= &< 7 :9= B;==;5 >92H4 7 =K ?3 2 83 9283<D;5;834 ;7 2H 8:3 <32D: @298= =3B32 C;88;59 2= &?9==& @< &8;59;2= 8?3;D: &3; 598;2= ;24 <8@H@3=3 0 ;24 23 3;D: &<@==9;2= 3=8 :;59;2= ;2 B3<9;2= ;24 9.9=:, 58 H38:3<8:3<3 ?3<3 2 53== 8:;2 L###732 && <39H2 92&;28<6 49= 3<=34 ;7 2H 8:3 8< = &-@2 8 @ 28 3==93<3= 2D36 ;24 @:3=73, :36 ?3<3 2 8 7;==34 C@8 =D;883<34 C< ;4D;=8 :9 =92H53 C;88;59 2= =;B3 8:3 8;59;2= ;24 3; 598;2= ? : & <73L ;D 7 5383 49B9=9 2 @243< 3DD:9 92 8:3 ;<76 &;8;5 29;,

:3 D;B;5<6 &8:3 ;<76 &;92 ?;= J@983 ;= :383< H323 @= ;24 955 D 7 ;D834 ;= 8:3 92&;28<6, -@=8 ;= T < B9=9 2;5 <3H97328= K &&8 ?3<3 ;8D:34 @ &< 7 8:3 = @8:3<2 43 8= &<;2D3 = ?3<3 T < B9=9 2;5 <3H97328=K &D;B;5<6, :3 C3=8 &8:37 ?3<3 D 7 =34 &8? 8:<33 <& @< =J@;4< 2= 3;D: D 28<9C@834 C6 8:3 43 8 &;&&3<328 D;B;5<6 <3H97328, :3 ? <=8 ?3<3 4<;?2 8 H38:3< 92 ;: ;R;<4 &;=:9 2 &< 7 =@D: &8:3 43 8= ;= : ;4 ;=@< 5@= &D 2=D<9 8= 3B32 ;&83< 8:36 : ;4 H9B32 ;&@55 =J@;4< 2 8 8:3 T < B9=9 2;5 <3H97328=, :3<3 ?3<3 ;5= ;2@7C3< &&<39H2 D;B;5<6 <3H97328= 8;59;2= 3; 598;2= 5;2D3<= &3<H ;24 53=, &B383<;2 <3H97328= &<32D: D;B;5<6 8:3<3 ?3<3 ;D8@;556 2 7 <3 8:;2 8:<33 ;C @8 $ # 732 ;7 2H 8:3 $ ### <=3732 &8:3 ;<76 &;92,

:32 ?3 =@7 @ 8:3 D 7 =989 2 &8:3 N### 732 ?: 5;6 = @8: &8:3 6<3233= 2 8:3 5;=8 4;6 &;6 M#M ?3 &924 8:;8

:3=3 5;=8 ?3<3 8:3 <3;< C;88;59 2= &8:3 @2& <8@2;83 <8@H@3=3 53H9 2 ?:9D: ?;= 92 7;<D: & <8:3 ;589D$ 8:36 ?3<3 =8955 2 8:9= =943 &8:3 6<3233= ?:32 8:3 ?;< C3H;2 ;24 ?3<3 :;=8956 @8959R34 ;H;92=8 ;<;H ==;,

;F?' +' ' " ' " # ' $ ' $ ' E:- /

2 8';'8:9<4' ;<8 &'8:37' C35 2H34'8 '8:3' 54' @298=' &'8:3'<3H@5;<'
<32D:';<76,' 8'7;6'C3'?<8:';?:953'8 'H9B3'8:3'&9H@<3=K
&'B383<;2='?3':;B3
0 P' ' 438;D:7328' &'8:3' 7 3<9;5'%@;<4'
?:9D:';?;='92832434'8 '=3<B3';='8:3' 7 3< <A='
=3D9;5'3=D <8'4@<92H':9='9<<@ 89 2'928 ' ;92' , I N## #
0$P' ?3286.=9G'C;88;59 2=' &'92&;28<6'&'8:3
5923';24'59H:8'92&;28<6'C392H';'&9<=8'=3D 24'<'
8:9<4'C;88;59 2='';24'2 8'23?56'<;9=34'&@<8:'
C;88;59 2=,,,

/ T% 8P A #

85@A3J &' & <39H23<=,' :3' <3=8' &' 8:3' B383<;2' 8< =' ?39A3' 7;9256' ?98:' @:3=73' 92' ;8;5 29;' ?:' :;4' ;' H 4' 49B9=9 2' &' N ###' B383<;2=,' 2'8:3',8:<33' D < =' &' @ 28' 2D36' ;24' 3==93<3=' 2' 8:3' 8:3<' :;24' 54' 8< =' 6 ' D 2= 9D@ @=' C6' 8:39<' ;C=32D3K ;7 2H' 8:3' " ###' 92&;28<6' &' @ 28A=' D < =' 2' ?:9D:' 0;=' 98' D:;2D34P' 8:3' &9<=8' =8<3==' &' 8:3' ;29=:' ?;<' ?;=' 43=89234' 8 ' &;55' 8:3<3' ?;=' ;D8@;556' 256'8? 'C;88;59 2=' 0 ##' 732P' &' 54' 8< =,' 2' 2D36A=' 8:3<3' ?;=' 2 8' ;' =92H53' B383<;2'@2985' 92' 3==9 =A' 256' & @<' C;88;59 2=,' :9=' =97 53' &;D8' H 3=' &;<' 8 ' 3G 5;92' ?:6' @ 28A=' 3G 34989 2' 8 ' 24;5@=9;' 534' 8 ' 8:3' D; 98@5;89 2' &' ;6532' ;24' ?:6' 2D36A=' 7;<D:' 2' /;532D9;' 32434' 92' ;2' 9H2 7929 @=' <38<3;8,' @28<93=' D;22 8' C3' D 2J@3<34' ?98:' : <43=' &' @24<95534' D 2=D<9 8=' 2 8' 3B32' D @28<93=' 92' ;2' ;4B;2D34' =8;H3' &' 5989D;5' 43D 7V =989 2' =@D:' M@=' 8:3' ;92' &' M#M,

Y' ' ' ' 7' M#M. Lh' <<=' 3 / &*/4' 2'

40 ,M *,

;6532' ;=' ?3' =:;55' =33' 8;@H:8' ; 53 2' :9=' 53== 2' ;24' 8:3' =3D 24' ;<76' ?:9D:' :3' C< @H:8'928' 8:3' 3292=@5;' 92' 8:3' ;@8@72' &' M#M' 8 ' <3 ;9<' :9=' 92989;5' 49=N9=,83<=' ?;=' B3<6' 49&&3<32856' D 2V =898@834' &< 7'8:3' :383< H323 @=' 7;==3=' ?:9D:' :3' :;4';8'&9<=8'X@4H34',' 8 ' C3' =@&&9D9328' & <' :9=' 8;=>,' 8' ?;=' D 7 =34' &' :9=' &923=8' 54' <3H97328=' &< 7'8:3' :923' ;24' 5C3'8:3'&5 ?3<' &'8:3' B9D8 <=' &' -32;' ;24' <9345;24,' B32'?:32'8:3'43= 8':;4':;5&;'7 9559 2'H 4' 8< =' ;8' :9=' 49= =989 2' :3' D @54' 2 8' C3' 92' & <D3' 3B3<6?:3<3' ;24' 8:3' 8<;2=&3<32D3' &' $## ###' B383<;2='8 ' ;92' 53&8' :97' ;57 =8' 8 ' ?3;>' 92' 328<;5' @< 3,' 2' 8:3' ==592H. ;H<;7' D;7 ;9H2' &' M#"' :3' & @24' 8:;8' :3' ?;=' C;<356' =8< 2H' 32 @H:'8 ' D 2J@3<'8:3' @=8<9;2=' <3D9=356' C3D;@=3' :3' :;4' 53&8' = ' 7;26' 732' C3:924' :97' 92' 8:3' 3292=@5;' 2' 8:3' @==9;2' D;7 ;9H2' &' M $' B;=8' ;=' ?3<3' 8:3' & <D3=' 8:;8' :3' 49= 5;634' 8:36' ?3<3' 638' 2 8' B3<' 2@73< @=' & <' 8:3' 3283< <9=3' C3D;@=3' =@D:' ;2' 977732=3' < <89 2' &' 8:37' ?;=' D 7 =34' &' @2?95592H' ;5593=' ;24' 49=;&&3D834' =@CX3D8=,' &' 8:3' 7;==3=' &' @=8<9;2=' <@==9;2=' 3; 598;2=' <8@H@3=3' 3=8 :;59;2=' ;B;<9;2=' ;24' = ' & <8:' :;4' C332' <3 5;D34' C6' :;5&' 8:39<' ;D8@;5' 2@7C3<' &' 54' <32D:' 8< =' &< 7' ;92' 8:3' ;<76' ? @54' :;B3' C332' &;<' 7 <3' ?3<&@5,' 8955' 7 <3' ?;=' 8:9=' 8:3' D;=3' 92' M I' 9&' 8:3' ?: 53' &' 8:3' 3292=@5;<' ;<76' :;4' C332' ;B;95;C53' & <' =3<B9D3

2 8:3 5C3 ;24 43< ;8 8:3 89 7 3 & 998R32 ;24 ;@8R32 8:3 3&&3D8 2 8:3 H323<;5 :9=8 <6 & @< 3 7 9H:8 :;B3 C332 92D;5D@5;C53, <@56 8:3<3& <3 494 8:3 7 3< < D;55 8:3 ;29=: ;< T8:3 <@2292H = <3A ?:9D: :;4 =; 34 :9= =8<32H8: 3B3< =92D3 98= D 7 7 32D3 7 328

? <4 ;= 8 8:3 8;D89D;5 <H;29R;89 2 &8:3 <32D: ;<76 92 M#M 9= <3J@9<34, :3 92&;28<6 <3H9 7 328= & 2 <7;5 & <7;89 2 D 2=9=834 ;= ?3 :;B3 =332 &&@< &9354 C;88;59 2= ;24 23 43 8 C;88;59 2 S 8:3 5;=8 2;7 34 23B3< &D 7A=3 ; 3;<34 ;8 8:3 &< 28, ;D: &9354 C;88;59 2 ?;= D 7 =34 &=9G D 7 ;293= & L# 7 32 98= 8? &5;2> D 7 ;293= 8:3 H<32;493<= ;24 B 589H3@<= ?3<3 & <7 34 &8:3 9D> &8:3 D < = K 928 8:3 H<32;493<= 256 8;55 928 8:3 B 589H3@<= 256 =: <8 732 ?3<3 4<;&834, :@= ;C;88;59 2 =: @54 2 <7;556 :;B3 =: ?2 ML# ;24 ;<3H9 7 328 I IN# 732 92 8:3 &9354, @8 98 B&;= C6 2 73;2= 8:3 @29B3<=;5 <@53 8 &924 8:3 ?: 53 & @< C;88;59 2= &;<3H9 7 328 =3<B92H 8 H38:3<, 2 8:3 7 43<<8 ;<793= & <;2D3 %3<7;26 < @==9;;<3H9 7 328 92 8973 & 3;D3 59B3= D 2D328<;834 92 98= <3D<@9892H 49=8<9D8 ;24 D;2 8;>3 8:3 &9354 92 ; D 7 ;D8 C 46, :9= ?;= 2 8 8:3 D;=3 92 ; 53 2A= 3B3<.?;243<92H : =&<K 8:3 D:;2D3= &?;<?3<3 ;5?;6= 9= 5;892H =92H53 C;88;59 2= ?:9D: 2D3 4< 34 92 ;H;<<9= 2 <=328 2 ;2 3G 34989 2 494 2 8 3;=956 <3X 92 8:39<&355 ?=, ;26 8 &8:3 23?& @<8:C;88;59 2= <;9=34 92 M# :;4 23B3< H 23 & <?;<4 8 %3<7;26 8 =33> 8:3 7;92 C 46 &8:39<<3H9 7 328=, &8:3 D < = ?:9D: ?3<3 C< @H:8A 4 ?2 8 ;92 92 8:3 5;83 ;@8@ 7 2 &M#M 8:3<3 ?3<3 7 <3 ?98: '8:<33 C;88;59 2=8:;2 ?98: & @<D 2D328<;834 @243<8:3<3H9 7 328;5 3;H53, 7 3 :;4 256 8? <3=328 ;&3?2 7 < 8:;2 23, ; @8 8:3 7 3< < 49=59>34 8 :;B3 =92H53 9= 5;834 C;88;59 2= ;24 <3V &3<<34 8 ? <> 8:37 92 ;9<= 9& :3 D @54 2 8 H38 8:<33 < & @< 8 H38:3<, :3 CX3D8 &8:9= ?;= 8:;8 9& 23 <8? C;88;59 2= H 8 7@D: ?3;>3234 92 ;D;7 ;9H2 8:3 732 D @54 C3 &@=34 928 ;=92H53 @298 ;24 8:3 =@ 3<2@73<;<6 &&9D3<= ;24 =3<H3;28= =328 C;D>

* <32D: H323<;5= ?3<3 7@D: ;449D834 8 8:3 3<29D9 @= <;D89D3 &7;==92H 8:3 H<32;493<D 7 ;293= &;55 8:3 <3H9 7 328= &;49B9=9 2 < ;2 ;<76 D < = 92 <43< 8 7 ;>3 ; 9D>34 C;88;59 2 < C<9H;43 8 C3 @=34 ;= ;<3=3<B3, -@2 8 :;4 & @< =@D: C;88;59 2= 36 ' ;8 /9793< ;24 /9D8 < 8:<33 ;8 ;< ==;,

* 8;>3 ;5;83< 3G;7 53 &8:3 8:<33 ' & 3* # 0 / / P ?98: ?:9D: ;==32; 92B;434 <8@H;5 92 M #8:3<3 ?3<3 256 <3H9 7 328= ?98: & @< C;88;59 2= <3=3285 ?:&53 =3B328332 :;4 8:<33 39H:8 :;4 8? ;24 832 ; =92H53 C;88;59 2 256,

M##M‡ ' % Q ' ‡ #"

8 ' 8 : 3' 43 8 ' ? : 3<3' 8 : 36' ? 54' & < 7 ' ;' 23?' C ; 88 ; 59 2' 899' &' 8593' =8 D>' &' D 2=D<9 8=,' @8' 8 : 3' &<3= : ' <H ; 29R ; 89 2' 7 9H : 8' B3<6' 59>356' C3' : @<<934 ' C6' = 7 3' =@4432' D : ; 2D3' &' ? ; < ' 8 ' 5@= : 92H ' <' 8 ; 56 ' 8 ' 8 : 3' ; 2@C3 ' ? : 953' 8 : 3' 3 ; H53' ; 24' 8 : 3' 7 ; 92' C 46' <3 7 ; 9234' 92' ; 92 <' B9D3' B3<= ; ,

: 3<3' ? ; =' 8 : 3<3& <3 ' 92' D 2=3J@32D3' &' 8 : 3' B ; <692H' =8<32H8 : ' &' 8 : 3' <3H9 7 328= ' 2 ' <3H@5 ; <986' <' =6=83 7 ' 92' 8 : 3' C<9H ; 492H' &' 8 : 3' <32D : ' 8< =' 92' ; 92K 92' 23' C<9H ; 43' 8 : 3<3' 7 9H : 8' C3' &9B3' <' =9G' 9= 5 ; 834' C ; 88 ; 59 2= ' 3 ; D : ' C35 2H92H' 8 ' ; ' =3 ; <; 83' <3H9 7 328S' 92' ; 2 8 : 3<' 8 : <33' &< 7 ' 23' <3H9 7 328' ; 24' 8 ? ' &< 7 ' ; ' =3D 24S' 92' ; ' 8 : 9<4' & @<' &< 7 ' 23' <3H9 7 328' ; 24' 23' &< 7 ' ; 2 8 : 3<,' <' ? ; =' 8 : 3<3' ; 26' &9G34' 2@ 7 C3<' &' C ; 88 ; 59 2=' 92' ; ' C<9H ; 43$ 98' 7 9H : 8' B ; <6' &< 7 ' 8 : <33' 0 ; ' B3<6' @2@=@ ; 5' 7 929 7 @ 7 P' @ ' 8 ' 2923 ; 2' 3J@ ; 556' <39<3' 7 ; G9 7 @ 7 ,' 9G' ? ; =' 3<: ; =' 8 : 3' 7 =8' &<3J@328' 2@ 7 C3<,' ' 49B9=9 2' ? ; =' D 7 V =34' &' 8 ? ' <' 53==' &<3J@3285 6' &' 8 : <33 ' C<9H ; 43= ' ; 24' 7 9H : 8' : ; B3' ; 26' 2@ 7 C3<' &< 7 ' 832' @ ' 8 ' =9G8332' <' 39H : 8332' C ; 88 ; 59 2= 9,3,' 98' B ; <934 ' ; 55 ? 92H' & <' D ; =@ ; 5' 5 ==3=' &< 7 ' N ###' 8 ' # ###' 732,' : 9=' 92*3H@5 ; <986' ? ; =' ; <8' &' ; 53 2A=' =6=83 7 K : 3' 5 ; 94' 98' 4 ? 2' ; =' ; 2' ; G9 7 ' 8 : ; 8' ; 55' 7 9598 ; <6' @298=' &< 7 ' ; ' C<9H ; 43' 8 ' ; 2' ; <7 6' D < =' @H : 8' 8 ' 49&&3<' 92' =8<32H8 : ' ; 7 2H' 8 : 3 7 =35B3=K 8 : 3< ? 9=3' 8 : 3' 323 7 6 ' 9&' : 3' : ; 4' 2D3' 49=D B3<34' : ? ' 7 ; 26' C<9H ; 43=' <' 49B9=9 2=' ? 3<3' 92' &< 28' &' : 9 7 K D @54' D ; 5D@5 ; 83' ? 98 : ' ; DD@<; D6' 8 : 3' 2@ 7 C3<' &' 8< =' 5(88 : ' ? : 9D : ' : 3' : ; 4' 8 ' 4 ,

@D : ' D 2&@=9 2' ,9=' D ; @=34 ' ? : 32' ? 3' 43 ; 5' ? 98 : ' ; 53 2A=' ; <7 6 ' C6' 8 : 3' =8<; 2H3' =6=83 7 ' &' 2@ 7 3<; 89 2' ? : 9D : ' : 3' ; 4 834,' : 3' 92&; 28<6' ? : 38 : 3<' D ; 5534' T 5923' <3H9 7 328=K <' T 59H : 8' 92&; 28<6' <3H9 7 328= K ? 3<3' &9553 4 ' ; 24' <H ; 29R34' 92' 8 : 3' =; 7 3' ? ; 6,' @8' 8 : 3' 7 3< <' : ; 4' = 7 3' 44' B ; H ; <93=K : 3' &832' <3&99=34' 8 ' <; 9=3' ; H ; 92' ; ' <3H9 7 328' ? : 9D : ' : ; 4' C332' 3G83< 7 92 ; 834 ' <' 8 ; >32' <9= 23<=' ' ' 32D3' ; &83<' ; ' &3 ? ' 63 ; <=' &' : 9=' <39H2' 8 : 3<3' ? 3<3' = 7 3' B ; D ; 28' 2@ 7 C3<=' 92' 8 : 3' 59=8' &' 92&; 28<6' D < =,' : 3' <3H9 7 328= ' & <' 3G ; 7 53 ' ? : 9D : ' ? 3<3' H ; <<9= 292H' 8 : 3' D 5 293=' ; 8' 8 : 3' 89 7 3' &' 8 : 3' <@ 8@<3' &' 8 : 3' 3 ; D3' &' 7 932 = ' &355' 23' ; &83<' ; 2 8 : 3<' 928 ' 8 : 3' : ; 24=' &' 8 : 3' 2H59 = : ' ; =' 8 : 3' ? ; <' ? 328' 2,' : 36' ? 3<3' 23B3<' <3 5 ; D34 ' ; 24' 53&8' H ; =' 92' 8 : 3' ; <7 6' 59=8,' 2' 8 : 3' 8 : 3<' : ; 24' 8 : 3' 7 3< <' = 7389 7 3=' <; 9=34' <3H9 7 328=' ? 98 : ' 4@ 59D ; 83' 2@ 7 C3<=' ; ' 7 =8' 89<3= 7 3' 8 : 92H' & <' 8 : 3' 7 9598 ; <6' : 9=8 <9 ; 2' &' 8 : 3' 23G8' ; H3,' 8' 9=' 9 7 ==9C53' 8 ' &; 8 : 7 ' : 9=' @< =3 ' @253=' : 3' ? ; =' =38' 2' D 2&@=92H' : 9=' 323 7 93=' C6' = : ? 92H' 7 <3' C ; 88 ; 59 2=' 8 : ; 2' 8 : 3' 59=8' &' 3G9=892H' D < =' =33 7 34' 8 ' 7 ; >3' ==9C53,' <' 3<: ; =' : 3' ? ; =' 8 : 92>92H' &' 8 : 3' 54' 53H9 2=' &' 8 : 3

W B,

7 ; 2 7 9<3 &? : 9D59 8 : 3<3 ?39 ;5? ; 6= =3B3<; 5 92 3G9=832D3 C3 ; <92H 8 : 3= =; 7 3 2@ 7 C3< C@8 49=892H@9= : 34 C6 8 : 39< : 2 <; <6 89853=, : =3 ?: ?: 9=: 8 <3; 4 8 : 3 =8 <6 & 23 & 8 : 3=3 4@ 59D; 83 <3H9 7 328= 7 ; 6 & 55 ? 92 8 : 3 : 9=8 <6 & 493< 8 : 3 8; 53 & 8 : 3 <; 9=92H ; 24 3G83< 7 92 ; 89 2 & 5 235 @438A= D353C<; 834 T "8 : 9=A & 8 : 3 5923 0

: 3<3 9= ; 2 8 : 3< 49&&9D@586 D; @=34 C6 ; =3D 24 &<3; > & 8 : 3 7 3< <$; 55 <3H9 7 328= @H : 8 ?3 : ; B3 =; 94 8 : ; B3 =: 7 & @< &9354 C ; 88; 59 2=, @8 2 ; ; <83 = 7 389 7 3= ; 4434 23 < 3B32 8 ? 7 <3 8 D < = ?: 9D : =8 4 : 9H : 92 : 9= &; B @< < ?: =3 43 8= < 4@D34 2 = 73 DD; =9 2= ; B3<6 5; <H3 =@< 5@= & D 2=D<9 8=, : @= ?3 &924 2 ?; 24 8 : 32 92 8 : 3 7 <292H =8; 83 & ; <32D : ; <7 6 D < = ; &9&8 : < 3B32 ; =9G8 : C ; 88; 59 2 & = 73 <3H9 7 328, @8 ; = ; <@53 8 : 3=3 @298= : ; 4 2 8 ; B396 5 2H 3G9=832D3K 8 : 39< @=@; 5 &; 83 ?; 8 C3 =328 : 73 ?: 32 8 : 39< 2@ 7 C3<= <; 2 5 ?&< 7 8 : 3 ?3; < ; 24 83; < & ?; < 92 <43< 8 C3 92D < <; 834 92 8 : 3 2 <7 ; 5 & 8 : 39< D < =, 2 8 : 3 ; @8 : <986 & 8 : ; 8 H 4 = 5493< ; 24 ; 4 79<; C53 : 9=8 <9; 2 6 ?3 ; <3 ; C53 8 =8; 83 8 : ; 8 2 8 : 3 &9<=8 & -@23 M#M ; 53 2 : ; 4 L &9354 C ; 88; 59 2= B3< ; 24 ; C B3 8 : 3 43 8= 2 : 9= ; <76 < 55=, & 8 : 3 I <3H9 7 328= & 8 : 3 5923 ; 24 8 : 3 8 : 9<86.8? 59H : 8 92&; 28<6 <3H9 7 328= : ; 4 ; 55 C332 92 3G9=V 832D3 ; 24 D 7 5383 8 : 3<3 =: @54 : ; B3 C332 M#& 9354 C ; 88; 59 2=, 53; <56 8 : 32 = 73 D < = : ; 4 49=; 3; <34 ; 24 7 ; 26 8 : 3<= : ; 4 2 8 7 <3 8 : ; 2 8 : <33 C ; 88; 59 2= <3; 46, @8 8 : 3 9 7 98= ?3<3 ; 5? ; 6= C392H D<3; 834 ; 7 ; 5H; 7 ; 834 < 49== 5B34 &< 7 ?33> 8 ?33> = 8 : ; 8 98 9= ; 57 =8 9 7 ==9C53 8 =8; 83 8 : 3G; D8 & <D3 & 8 : 3 ?: 53 <32D : ; <76 ; 8 ; 26 H9B32 7 7328, : H 7 =8 9 7 <8; 28 D : ; 2H3 8 : ; 8 ?; = 73943 4@<92H 8 : 3 63; < M#M ?; = 8 : 3 D 2B3<=9 2 & 8 : =3 & 8 : 3 < B9=9 2 ; 5 <3H9 7 328= ?: 9D : 3=D; 34 @ 28A= 49=; =83< 928 23? 3<7 ; 2328 D < =, 6 D 7 C9292H 8 : 37 92 ; 9<= 8 : 3 L8 : . $#8 : & 8 : 3 5923 ; 24 8 : 3 MI<4 53H3< ?3<3 D<3; 834 I, 2 8 : 3 =@DD33492H &9B3 63; <= 7 <3 ; 24 7 <3 D < = ?3<3 <; 9=34K 8 : 3

493< 1 + ' ' 0 + $ 99, $ I I .N,

* 2 8 : 3 D; 7 ; 9H2 & M # 8 : 3 $%8 : NN8 : ; 24 M$24 <3H9 7 328= 92 ; ==32; A= ; <76 : ; 4 N8 : ; 24 N8 : C ; 88; 59 2= 92 8 : 3 &9354,

* : 9= ?; = 4 23 2 -@56 0=33 , & * & $ L NLP, =, ; 24 $ C3D; 73 8 : 3 L8 : & 8 : 3 5923 I ; 24 L 8 : 3 8 : N ; 24 N 8 : 3 N8 : ; <94 M 8 : 3 -iI<4 53H3< "; 24 # 8 : 3 8 : ; 8 : 3 M8 : I ; 24 L 8 : 3 "8 : ; 24 M 8 : 3 $#8 :, : 32 8 : 3 N8 : 8 : ; 24 M8 : ?3<3 D; 8@<34 ; 8 ; 6532 23? D 2=D<9 8= : ; 4 8 C3 C< @H : 8 &< 7 <; 2D3 8 D 7 5383 8 : 3 N8 : ; 24 <3 5; D3 8 : 3 II<4 4H3<,

;223G;89 2 & 55;24 ;24 <8:3<2 %3<7;26 92 M #. @589V 7;8356 32;C534 8:3 7 3< <8 D;<<6 8:3 8 8;5 &:9=5923 <3H97328= @ 8 N W M I] ;24 &:9=59H:892&;28<6 <3H97328=@ 8 8:9<86. =9G

&8:3 <32D:D;B;5<6?3 2334 2 8= 3;>;8=@D:532H8:, :32 8:3 ;29=: ?;< C< >3 @8 2; ;<83 ?;= ==3==34 C& ;C @8 39H:86 <3H97328= &: <=3732 3;D:8;>92H 8:3 &9354 ?98:& @<=J@;4< 2= &= 73 #8 $##7 32, :3<3)?3<38?35B3 <3H97328= &D@9<;==93<= 8? & D;<;C9233<= 8:9<86 &4<;H 2= 8?3286.=9G & / 832 &:@==;<= 9,3,& @<8332 <3H97328= &:3;B6 8:9<86 & 7349@7 ;24 8:9<86.=9G & 59H:8 : <=3, :3 D@9<;==93<= ?3<3 :;<456 3B3< =332 92 ;92 2 8 7 <3 8:;2 8? < 8:<33 <3H97328= 3B3< =3<B34 = @8: &8:3 6<3233=*, 2 8:3 8:3< :;24 8:3 H<3;83< ;<8 &8:3 4<;H 2= ?3<3 37 5 634 92 8:3 3292=@5; 8:3<3 ?3<5 92 M#"8?3286.&9B3 &8:3 8:9<86 <3H97328= &8:37 92 8:3 &9354 ;H;92=8 8:3 2H59=: ;24 ;29;<4=, <3 8:;2 :;5& &8:3 :@==;<= ;5= =3<B34 92 ;92,, 8:3 B383<;2 D < = &<3H895;<= 8:3<3 ?3<3 ;4434X ;8 8:3, @8=38 &8:3 ?;< ;= ?955 C3 <37337C3<34 ;H<3;8 2@7C3< &T < B9=9 2;5 <3H97328= A C@8 8:3=3 H<;4@;556 49=; 3;<34 C6 C392H 92D < <;834 92 8:3 543< < 92 ;&3?;D;=3= C6 C392H & <734 928 23? 3<7;2328 @298=, :3<3 ?;= ;5= ;= 7;== & 59=:%3<7;2 ;24 8;59;2 D;B;5<6S C@8 8:3=3 ;@G959;<93= 494 2 8 C3;< =@D: ;: 9H: < <89 2 8 8:3 2;89B3 <32D:;= 494 8:3 & <39H2 ;<8 &8:3 92&;28<6 ;<7, 6 &;< 8:3 7 =8 49=892H@9=:34 &8:3=3 D < =?3<3 8:3 59=:5;2D3<= ?: 7 8:3 2H59=:D;73 8 >2 ?256 8 ?355 ;8 5C@3<;, : 8;59;2= ?3<3;57 =8 3GD5@=9B356 37 5 634 2 8:3 3;=8 D ;=8 & ;92 92 8:3 ;<76 & ;8;5 29;, :3 %3<7;2= 7 =856 &< 7 3=8 :;59; 3<H ;24 ;==;@ ?3<3=D;883<34 ;C @8 92 =92H53 <3H97328= ;7 2H 8:3 D;B;5<6 D < = &8:3 B;<9 @= ;<793=, :36 ?3<3 ?;6= 79G34 ?98:8:3 <32D:: <=3 ;24 23B3<; 3;<34 92 C<9H;43= 07@D:53== 92 49B9=9 2=P &8:39< ?2,

:3 ;B3<;H3 =8<32H8: &;<32D:D;B;5<6 <3H97328 4@<92H 8:3 63;<= M#". L ?;= & 97 =J@;4< 2= &;C @8 #7 32 3;D:, 8 ?;= B3<6 =354 7 8:;8,;D < = =: ?34 B3< N## 732 92 8:3<;2>=K

* 33 @==38=3GD355328 ! / # M I,

* :3 7 =8 49=892H@9=:34 &8:3=3 ?;=8:3 I8: @9<;==93<=;<3H928328 &23?& <7;89 2 ?:9D: =3<B34 8:<@H: @8 8:3 ?;< 92 <;H 2 ;24 ;8;5 29;; 24 ?;= C6 &;<X8:3 C3=8 &;D:38=7 @2834 D < =, <98=;D:93B37328=8:3 <3;43<7;6 C3 <3&3<<34 8 8:3 9283<3=892H # &, 5 235 43 % 223B953,

7;==, 7389732= ;? : 53 <3H97328 <C<9H;43&<7342 23432=3 D 5@72, ?A9&8:3. 32376 ;= ?;= ;5?;6= 8:3 D;=3 ?98:8:3 <989=:<3&@=34 8 C3 97 <3==34 C@8 =8 4 &9<7 92 5923 :354 8:39< H< @24 ;24 C5; 4 928 8:3 :3;4 &8:3 7;==8:3 ;88;D> ?;= D3<8;92 8 &;95, <M##7329283:38? .433 5923?:9D: 35592H8 2 5 B34 D @54 ;55 @=3 8:39< 7@=>38= ;24 8:@= @<34 M##C@5538= 3< B 5536 928 ; <32D:C;88;59 2 &8:3 =;73 =8<32H8:?:9D: 256 D @54 <38@<2 N#, :3 2923.433 <39H:8332.433 D 5@72?;=;8;<H38 ?:9D: 98 ?;= 97 ==9C53 8 79==, 32D3 8:3 &< 28 <;2>= ?328 4 <B2 92 < ?= ;24 8:3 ?: 53 D;73 8 ;=8;24=8955, &;= ?;= &832 8:3 D;=3 8:3 <32D:C;88;59 2 8<934 8 43 5 6 92 &< 28 &8:3 2H59=:5923 = ;= 8 C<92H 7 <3 7@=>38= 8 C3;<98 =354 7 < 23B3<=@DD33434 92 ;DD 7 59=:92H 8:3 7;2 3@B<3 &<3;D: D 7 ;26 ;= 98 =8<;HH534 @8 &< 7 8:3 7;== H 8 =: 8 4 ?2 = J@9D>56 8:48 8:3 &<7;89 2 D @54 23B3< C3 D 7 53834, ?243<8:;8 6 92 :9= <9B;83 X @<2;5 &358 :97=35& D 2=8<;9234 8 D 2&3== 8:;8 A& <;=38 C;8853 ?98: 3J@;5 2@7C3<= 2 ;59798346 &< 28 8:3 2H59=:92&;28<6 ?;= =@ 3<9 <, 7 >33 8:9= 929 2 8 76=35& A:3;44= 7;24 :;B3 23B39X 49B@5H34 98 $ & <98 9= 23D3=;<6 8:;8 8:3 = 5493<92 8:3 <;2>= =: @54 2 8 256 :;83 8:3 32376 C@8;5= 43= 9=3 :97 6 >3 8 :9= 929 2 = D5 =356 8 :97=35& 8:;8:3 494 2 8 @8 98 92 :9= & <7;5 :9=8 <6 &8:3 3292=@5;< ;<K 98 :;= 256 C3D 73 @C59D < 3<86 =92D3 :9= X @<2;5= ?3<3 @C59=:34 92 "##,

' @8 8:3 &;D8 8:;8 ?98: ;268:92H 59>3 3J@;5 2@7C3<= 8:3 5923 7@=8 C3;8 8:3 D 5@72 ?;= 437 2=8<;834 B3< ;24 B3< ;H;92 4@<92H 8:3 ?;<, 8 :;4 &9<=8 C332 =332 ;8 ;94;92 M#N C@8 8:;8 C=D@<3 ;5;C<9;2 C;8853 ?;= :;<456 >2 B2 3B32 C6 2;73 =;B3 8 8: =3 ?: :;4 C332 <3=328, 8 ?;= ;8 ;5;B3<; ;24 =8955 7 <3 ;8 @=;D ;24 5C@3<; 8:;8 98 C3D;73 ;8328 8 3B3<6C 46 8:;8 8:3 ;88;D> 92 C;88;59 2 D 5@72 3B32 9& <3D3434 C6 ;B9H < @= =?;<7 &=>9<79=:3<= D @54 23B3< =@DD334 ;H;92=8 8:3 2H59=:, 8 8:3 8? & <73< &9H:8= 8:3 <32D: ;88;D>34 @ :955 ;24 5;94 8:3 C5;73 &8:39< 43&3;8 @ 2 8:3 @2&;B @<;C53 H< @24, @8 ?:32 ;8 5C@3<; 8:<33 2H59=:C<9H;43= 4< B3 4 @C53 8:39< ?2 2@7C3<= &< 7 8:3 D 7 7;2492H <94H3 2 ?:9D: @58 :;4 <;2H34 8:37 =97 56 C6 8:3 =@ 3<9 <986 &8:39< 7@=>38<6 &9<3 8:3<3 ?;= 2 5 2H3< ;26 ==9C95986 &49=H@9=92H 8:3 7 <;5, 38 8 8:3 324 &8:3 ?;<4 ?2 8 ;83<5 98=35& 8:3 <32D: =8@D> 8 8:39< 54 &<7;89 2K ;8 8:3 H<3;8 C;8853 92 M N ;= 35592H8 2 83<=356 * 9;<6 & 6 92 %9< 4 43 A 92A= 5 - < = $,"M,

N W M#M.

=;94 T :3 <32D:D;73 2 2D3 7 <392 8:3 54 =8653 ;24 ?3C3;8 8:37 92 8:3 54 =8653,A

@8 ?:32 ; 53 2A= ;<793= ?3<3 =34 8 8< = ?: D @54 2 8 =8;24 &9<7 8 7338 8:37 92 ;5923 & <7;89 2 8:36 H323<;556 =@DD33434, 593 ;29;<4= 92 8:39< 3;<593< C;8853= &832 8<934 8 <3=9=8 92 ;3 5923 &43 5 634 C;88;59 2= C@8 8:39< ?;= 2 8 H 4 32 @H: ?:32 8:3 ;88;D>92H D 5@72 49A3?D5 =3 8 8:37 ;24 8:36 H323<;556 H;B3 ?;6 ;8 8:3 D<989D;5 7 7328 ;24 538 8:39< ;==;95;28= C<3;> 8:< @H: , :3 =;73 :;4 &832 C332 8:3 D;=3 ?98: 8:3 @=8<9;2= ;24 <@==9;2= ? : 92 8:39< 3;<593< ?;<= ?98: ; 53 2 @=34 8:3 5923 & <7;89 2 ?:9D: <343<9D> 8:3 %<3;8 :;4 @5;<9R34 &9&86 63;<= C3& <3, :3 H<3;8 >92H :;4 ;DD@=8 734 :9= 8< = 8 &9H:8 92 ; 8:<33. < & 9@).433 5923 ?98: ; C6 8:3 &9<3 &8:3 ?: 53 C;88;59 2 8: ;8 :9= 8< = ?3<N 92832434 8 ?92, :3 7;==3= &89<;9553@<= ?:9D: 8:3 <32D: =328 & <?;<4 92 &< 28 &8:39< D 5@72= H323<;556 =@DD33434 92 32H;H92H 8:3 <@==9;2 < @=8<9;2 5923 = D5 =356 8:;8 8:3 D 5@72= C3:924 8:37 D;73 @ ?98: @8 7@D: 5 == ;24 8:32 C< >3 8:3 &923 C6 8:39< 73<3 7 7328@7 ;24 7 <;5 3&&3D8, 32D3 92 8:39< 5;83<?;<= 8:3 %3<7;2 ?3<= D 934 8:39< 3237 93= ;24 8 > 8 @=92H ;B3<6 8:9D> =>9<79=:92H 5923 C;D>34 C6 C;88;59 2 D 5@72= 92 8:3 <32D: =8653,

35592H8 2 23B3< & @24 ;26 <3;= 2 8 4 = ,9= 738: 4 ?;= 8 D <9D3;5 :9= 7;92 5923 ;=5 2H ;= ==9C53 C6 ;49 92 8:3 H< @24 ;: 34H3 < ;? ;55 < 8 >33 98 C3:924 8:3 D<3=8 &8:3 =989 2 ?:9D: 98 ?;= :5492H, 8 &;D3 8:3,89<;9553@<=3;D: C;88;59 2 =328 @8 98= 59H:8 D 7 ;26 ;24 3;D: C<9H;43 :;4 ;==9H234 8 98 =3B3G;5 438;D:34 D 7 ;293= &<9&53732 &< 7 M#" 2?;<4 = 73 &8:3 N#8: 9&53= ;24 23 <8? & <39H2 59H:8 D < =* ?3<3 C< >32 @ ;24 49=8<9C@834 < @24 8:3 B;<9 @= 49B9=9 2= & <8:9= = 3D9;5 @< =3, :9= H;B3 ;5923 &=>9<79=:3<= =8< 2H 32 @H: 8 : 54 C;D> 8:3 89<;9553@<= & <;5 2H 8973 < C;C56 8955 8:3 =@ <892H D 5@72=

* :3<3;43<?: ?9=:3= 8 =33 ;5 H9D;5 3G 5;2;89 2 &8:3 :32 732 2 7;6 &924 98 92 8:3 <37;<>= &8:3 ;29=: 5 235 =D = 0 M $P 92 <83D:3 99, I "L, 3 3G 5;92= 8:;8 8:3 =>9<79=:92H,5923 &:9= D 7 ;8<9 8= ,?;= ;5?;6= 8 8:92 8 >33 C;D> 8:3 89<;9553@<=, :3 5;883< 92B;<9;C56 @=:34 8:39< ?;6 D5 =3 @ 8 8:3 ;29=: 7;92 C 46 ;24 ?:953 <3=32892H 92 8:39< =D;883<34 & 97;89 2 2 43&92983 7;<> & < B 5536= ?3<3 638 2@73< @= 32 @H: 8 = : 8 4 ?2 = 7;26 &8:39< 2328= ;= 8 =:;>3 8:3 ;29=: & <7;89 2 C3& <3 8:3 D 5@72= 92 8:3 <3;< D;73 @ ,

* 3, H, : > '?7@ ';24 8:3 * # ': 9

M L]) % A

D; 7 3@ 8 : 35 8 : 3 7, 8 B; 256 8 : 32 8 : ; 8 8 : 3 <989= : => 922 9= : . 92H 5923 H; B3 ? ; 6 ; 24 <389<34 C3 : 924 98= 7 ; 92 C 46 53 ; B92H 8 : 3 43 5 634 C; 88; 59 2= 92 &; D3 &8 : 3 <32D : D 5@ 7 2 &? : 9D : 8 : 36 23B3< &; 9534 8 H9B3 ; = ; 89=&; D8 <6 ; DD @28, : 3 D B3<92H =D<332 &59H : 8 8< = &832 =@&&3<34 83<<9C56 3,H, ; 8 ; < ==; < ? 2A= 59H : 8 C; 88; 59 2A 5 =8 & @<8332 @8 &8 ? 3286. 23 &&9D3<= ; 24 7 <3 8 : ; 2 : 5&98= <; 2> ; 24 &953 (? : 953 : 5492H &&8 : 3 <32D : ; 4B; 2D3 &< 7 8 : 3 5923 ? : 9D : ? ; = & < 792H 92 98=.<3; <, @8 8 : 3 D 7C; 8 ; 5? ; 6= ?328 ?355 9& 8 : 3 3237 6A= =>9< 79= : 3<= D @54 C3 >3 8 C; D> ; 24 : 9= =@ <892H D 5@ 7 2= & <D34 8 D 7 3 8 8 : 3 &< 28 8 32H; H3 ?98 : 8 : 3 <3H9 7 328= 92 8? .433 & < 7 ; 89 2 ? : 9D : B3<3 ? ; 9892H & < 8 : 3 7,

0(,3+& 82.0 .0+ 1(*)+.(,+D 6.+) 0+(,2 6 %))(,,(.%8+& J +& /+-%(44* +)-0)(,,(.% !+& J 6 .0+ +)%)&74(, (, K 7 .%. 8(& 8+,* &+42 ' .0(. .0+ // &%) 3 ., /& (-.7(44* -(' + %). - 44%&%) 8%.0 .0+ 80%.+ 5+(/) 0+,+ 8+,+ --(&%)&(4 ' &. %)8(,%(14* %) 6%30.%) 3 %); 8%44(3+& , +)-4 &+2 3, 7)2) 80%-0 -)&%2+,(14+)7 ' 1+,& 6 ' +) 5+,+ 9%44+2 , 5 7)2+2 5%.0 .0+ 1(*)+. 17. .0+* 8+,+ 17. 6+5 . %& -+,.(%) 0 8+8+, .0(. .0+ S ,2 (. % ' %+, .0+ &. +)2 .0 (. 7+).+& 2<) , ()2 .0+ Q .0 (.)-+&8(44+& +)3(3+2 %) .0%& 6(&0%) ; A ()2 .0+, -(&+& - 742 1+ C7 .+2 K 7. (& (, 74+ (N 1(*)+. -0(,3+< %) (, +)-0 0%&. ,%()' +,+4* ' +()& .0+ (28()-+ 6 (- 47 ') 7 /. .0+ +)+ ' *<& / &%.%) 8%.0 7. 6%, %) 3I %. 2 +&) . % ' /4* (-.7(4 -).(-. , .0+ -, &&%) 3 6 ; +(/)&))34%&0 -0(,3+) .0+ .0+, 0()2 5(& /,(-.%-(44* ()(2T#()-+ %) 4%)+ 5%.0 6%; +C7+). 8 44+*& , %)2+/+)2+). 6%4+!6%, %)3 . 417+, (, K(, &&(, (4(' ()-(%. 8(& .0+< 1(44) . .0+ 1(*)+. 50%-0 2%2 .0+ 8 ,9A .0+ +)+ ' * 8(& &0 . 2 8) , 3(8+ 8(* 8%.0 7. ()* 0()2!. !0()2 -)64%-.

<32D : D; B; 5<6 8; D89D= : ; 4 C6 43B35 34 928 ; = 43&92983 ; =6=837 ; = 8 : =3 &8 : 3 92&; 28<6, ; 53 2 B; = & 24 &7 ; ==92H : 9= : <=37 32 92 B3<6 5; <H3 C 493= ; 24 5; @2D : 92H 8 : 37 ; 8 8 : 3 &5; 2> < 3B32 ; 8 8 : 3 D328<3 &8 : 3 ; <76 =34 8 : 97, 3 ? @54 DD; =9 2; 556 @=3 ; = 7 ; 26 ; = < <0; = ; 8 ; 83<5 P 3B32 Q 732 & < 23 &8 : 3=3 H9A3; 8 =8< >3=, < 8 : <33 &: 9=

* 33 5; >3236 / : $ 349834 C6 8@<H3= O M""P , M" "#, & < ; 2 ; DD @28 &8 : 9= C5 46 3 9= 43,

* : 3 <3; 43< ? : 9= D@<9 @= ; = 8 438; 95= &; D8@; 5 C; 6 238.&9H : 892H 7 ; 6 D 2V =@58 %<; 88; 2 & < 8 : 3 MM8 : ; 24 8 : 3 ; 2 267 @= T , , A &8 : 3 =8 & < @3283= 4A &9 < ; 24 833B32= &8 : 3 $#8 : & < 2D3=B; 553=, : 3 D : ; <H3 & B36A= D 7 ; 26 &8 : 3 5; 883< D < = 2 8 : 3 5; =8. 73289 234 DD; =9 2 7 @D : <3=37 C534 23 &8 : 3 92D94328= & 2>3<7 ; 2,

M I]‘ ‘ ‘ -- ‘ / ‘ "

: ;4‘ 23B3<‘ =332‘ 8 : 3‘ <989= : ‘ 92&; 28<6‘ &9H : 8 ‘ ; 24‘ ? ;=‘ 3289<356‘ 9H2 <; 28‘ &‘ 8 : 39<‘ <3=9=892H‘ ?3<,‘ (

&‘ &9H : 8=‘ C38?332‘ D ; B ; 5<6‘ ; 24‘ D ; B ; 5<6 ‘ ? : 3<3‘ 8 : 3‘ 8 ? ‘ =943=‘ ?3<3‘ <3=328‘ 92‘ =@D : ‘ 3J@ ; 5‘ 2@ 7 C3<=‘ ; =‘ 8 ‘ 7 ; >3‘ 8 : 3 =8<@HH53‘ ; ‘ &; 9<‘ 83=8‘ &‘ 8 : 39<‘ <35 ; 89B3‘ 3&&9D932D6 ‘ 8 : 3<3‘ ?3<3‘ C@8‘ &3?‘ 92‘ 8 : 3‘ 3292=@5 ; <‘ ; <,‘ 2‘ 8 : 3‘ 3 ; <56‘ 63 ; <=‘ &‘ 8 : 3‘ =8<@HH53‘ 35592H8 2‘ ? ; =‘ B3<6‘ =D ; 28956‘ < B9434‘ ?98 : ‘ : <=3732‘ ; 24‘ 23B3<‘ D @54‘ ; && <4‘ 8 ‘ 32H ; H3‘ 92‘ ; ‘ D ; B ; 596‘ C ; 8853‘ 2‘ ; ‘ 5 ; <H3‘ =D ; 53,‘ ; 83<‘ 2 ‘ ? : 32‘ : 3‘ ? ;=‘ 7 <3‘ : ; 956‘ =98@ ; 834‘ 92‘ 8 : 9=‘ <3= 3D8 ‘ : 3‘ = : ?34‘ =@D : ‘ ; ‘ 7 ; <>34‘ <35@D8 ; 2D3‘ 8 ‘ <9=>‘ H<3 ; 8‘ D ; B ; 5<6‘ D 7C ; 8=‘ 8 : ; 8‘ 8 : 3‘ 54‘ = ; X<92H‘ 8 : ; 8‘ : 3‘ ? ;=‘ T‘ <3.3792328 56‘ ; 2‘ 92&; 28<6‘ H323< ; 5‘ A‘ =337=‘ X@=89&934,‘ : ; 8‘ : 3‘ D @54‘ @=3‘ : 9=‘ : <=3732‘ B9H < @=56‘ 32 @H : ‘ ? : 32‘ : 3‘ = ; ?‘ : 9=‘ <8@2986 ‘ : 3‘ = : ?34‘ ; 8‘ ==; 63 ‘ 5 2H‘ C3& <3‘ : 3‘ : ; 4‘ 7 ; 43‘ : 9=‘ 2 ; 73‘ >2 ?2‘ 92‘ @< 3,‘ 38‘ 8 : 3‘ 256‘ 23,‘ &‘ : 9=‘ H<3 ; 8‘ C ; 8853=‘ 92‘ ; 92‘ ? : 3<3‘ <9=‘ 4< ; H 2=‘ 8 >‘ ; ‘ < 792328‘ ; <8‘ 92‘ 8 : 3‘ B9D8 <6‘ ? ; =‘ ; 5 ; 7 ; 2D ; ‘ ? : 3<3‘ * 3‘ ; <D : ; 28A=‘ C<9H ; 43‘ =8<@D>‘ =@D : ‘ ; ‘ = 7 ; = : 92H‘ C5 ?‘ 2‘ 8 : 3‘ &5 ; 2>‘ &‘ 8 : 3‘ <32D : ‘ ; < 96,‘ 3‘ : ; B3‘ : 9=‘ ?2‘ ; @8 : <986‘ ‘ &‘ <‘ 8 : 3‘ &; D8‘ 8 : ; 8)‘ : 3‘ : 3=98 ; 834‘ 8 ‘ 7 ; ==‘ H9.3 ; 8‘ C 493=‘ &‘ : <=3 ‘ C3D ; @=3‘ : 3‘ 4 @C834‘ 8 : 3‘ 8 ; D89D ; 5‘ =>955‘ &‘ : 9=‘ &&9D3<=‘ ; 24‘ 8 : 3‘ ?3<‘ &‘ 8 : 3‘ <3H97328=‘ 8 ‘ 7 ; 2 3@B<3‘ T‘ ‘ D 2=943<34‘ @<‘ D ; B ; 5<6 A‘ : 3‘ ?< 83‘ 832‘ 63 ; <=‘ ; &83<‘ 8 : 3‘ ?; <‘ ?; =‘ B3<‘ ‘ T‘ = ‘ 92&3<9 <‘ 8 ‘ 8 : 3‘ <32D : ‘ &< 7‘ ? ; 28‘ &‘ <43<‘ 8 : ; 8‘ ; 58 : @H : ‘ ‘ D 2=943<34‘ 23‘ =J@ ; 4< 2‘ ; ‘ 7 ; 8D : ‘ & <‘ 8? ‘ <32D : ‘ ‘ 494‘ 2 8‘ 59>3‘ 8 ‘ =33‘ & @<‘ <989= : ‘ =34‘ 8 ‘ & @<‘ <32D : K ; 24‘ ; =‘ 8 : 3‘ 2@7C3<=‘ 92D<3 ; =34‘ ; 24‘ <43<‘ ‘ &‘ D @<=3 ‘ C3D ; 73‘ 7 <3‘ 23D3==; <6 ‘ ‘ ? ; =‘ 8 : 3‘ 7 <3‘ @2?95592H‘ 8 ‘ <9=>‘ @<‘ 732‘ ?98 : @8‘ : ; B92H‘ ; ‘ =@ 3<9 <986‘ 92‘ 2@7C3<=,‘ : 36‘ D @54‘ H ; 55 ‘ C@8‘ D 944‘ 2 8‘ <3=3<B3‘ 8 : 39<‘ <43<,A

6 ‘ 92‘ : 9=‘ 3GD35532 8‘ : 9=8 <6‘ &‘ 8 : 3‘ ; 29=: ‘ ; < ‘ 37 98=‘ ; 2‘ 929 2‘ 92‘ ? <4=‘ D@<9 @=56‘ =92995 ; <‘ 8 ‘ 8 : =3‘ &‘ 35592H8 2 ‘ =8 ; 892H‘ 8 : ; 8‘ & <‘ <; D89D ; 5‘ @< =3=‘ 8 : 3‘ 2H59= : ‘ 8< 3<=‘ ?3<3‘ 92&3<9 <‘ 8 ‘ 8 : 3‘ <32D : ‘ 2‘ ; DD @28‘ &‘ 8 : 39<‘ : 3 ; 45 2H‘ 97 38@ =986‘ ; 24‘ ? ; 28‘ &‘ ?3<‘ 8 ‘ 7 ; 2 3@B<3‘ : 32‘ 8? ‘ =@D : ‘ ; @8 : <9893=‘ ; H<33 ‘ 8 : 3<3‘ 7@=8‘ D53 ; <56‘ : ; B3‘ C332‘ = 73‘ = 594‘ & 974 ; 89 2‘ & <‘ 8 : 39<‘ B3<49D8,‘ 38‘ 98‘ 9=‘ : ; <4‘ 8 ‘ J@ 83‘ 7 ; 26‘ D 7C ; 8=‘ 92‘ 8 : 39<‘ =@ <8K‘ 8 : 3<3‘ ?3<3‘ D ; =3=‘ 2 ‘ 4 @C8 ‘ ? : 3<3‘ 2H59= : ‘ <3H97 32XS=‘ 8 : <3?‘ 8 : 39<‘ D : ; 2D3=‘ ; ? ; 6‘ C6‘ 8 : 39<‘ C5924‘ &@<6‘ 92‘ D : ; <H92H ‘ ; =‘ 494‘ 8 : 3‘ $I<4‘ 9H : 8‘ <; H 2=‘ ; 8‘ ; 5 ; B3< ; ‘ 8 : 3‘ M8 : ‘ 9H : 8‘ <; H 2=‘ 23 ; <‘ ; 29 ‘ ; 6 <‘ 2‘ ; <D : ‘ $ ‘ M ‘ ; 24‘ 5 ; 43A=‘ C<9H ; 43‘ ; 8‘ ; H@9 ; ‘ 2‘ -@23‘ ‘ M $,‘ 38‘ ?98 : ‘ 8 : 3‘ 737 <6‘ C3& <3‘ @=‘ &‘ ; H38A=‘ ; 479<; C53‘ 3<; 89 2=‘ ; 8‘ ; C ; H@2‘ ; 24 ‘ 3883<‘ 8 ‘ <4‘ 9559 ; 7‘ @==355‘ -@56‘ I ‘X‘ M$N,‘ =‘ X‘ $MM."#,

$#' ' ' ' ' ' W9M#M.

323B3283' 92' 3D3 7 C3<' M#M ' &' @ 7 536A=' =545&995' D 28;9292H' &A
;8 @<' ;@C @<HA=' =@ 3<9 <' 2@ 7 C3<=' ;8' 5C@3<; ' ;24' :9=' C<9559;28'
=@DD3==' ;8' =;H9.3, B3<')8:;8' =;73' H323<;5' 92' M ' ;=' ?355' ;='
88 2A=' D 2=943<;5XX53' D;B;5<6' &9H:8' ;8' /9 ;' %;<D9;' 92' M $' 98'
=337=' =8<;2H3'8 ' &924' 35592H8 2' 49= ;<;H92H' :9=' B2'8< 3<=,' '
4 @C8' ?3'97@=8' D 2D343' 8:;8' 8:3' <989=:' : <=3732' 494' 2 8' =: ?'
8:;8' 7 ;<>34' =@ 3<9 <986' B3<' 8:39<' <9B;5=' &' 8:3' =;73' ;<7' ?:9D:'
35592H8 2A=' 92&;28<6' ;5?;6=' ;==3<834,' ' @8' &;9<56' C;5;2D92H' 8:39<'
&;@58=' ;24' 8:39<' 73<98=' 98' ? @54' =337' 8:;8' 8:3<3' ?;=' = 738:92H'
?;2892H' 92' 8:39<' H323<;5' 2 ' 53==' 8:;2' 92' 8:37=35B3=,' ' 5 B3<' &' 8:3'
D;B;5<6' ;<7' ? @54' :;B3' H 8' 7 <3' < &98' @8' &' 8:3' <989=:' : <=3'
8:;2' 35592H8 2' 3B3<' C8;9234,,' 8' 9=' 2 89D3;C53' 8:;8' 2 8' 23' &' 8:3'
=@DD3==&995' &9H:8=' D9834' ;C B3' 8 >' 5;D3' @243<' 8:3' 363' <' 8:3' 49<3DV
89 2' &' 8:3' @>3,

=' 8 ' 8:3' ;29=:' D;B;5<6' 98' ?;=' 0;=' ?3' :;B3' ;5<3;46' :;4' DD;=9 2'
8 ' <37;<>P' 8:3' ?3;>3=8' 928' 92' 8:3' 2;89 2;5' ;<76,' 2' 8:3' &9<=8'
;D89 2=' &' 8:3' ?;<' 98' ; 3;<34' 2' 8:3' &9354' 9 ' =@D:' =7;55' 2@7C3<='
8:;8' 98' :;4' 2 ' D:;2D3' ;H;92=8' 8:3' <32D:,' @8' 5;83<' 2 ' ?:32' 8:3'
X@28;=' =@DD33434' 92' <;9=92H' 5;<H3' 7;==3=' &' :<=3732 ' 8:39<' =D;2V
4;5 @=' D 24@D8' 2' ;' =D <3' &' &9354=' ?;=' 8:3' 43= ;9<' &' ;29=:'
H323<;5=,' 3' 2334' 256' 73289 2' 3435592' ;24' D;&8;' ;=' 3G;7 53='
&' 8:39<' 79=C3:;B9 @<,' ' <32D:' D;B;5<6.H323<;5' 3B3<' :3=98;834'
8 ' 32H;H3' ?98:' 4 @C53' &' :9=' ?2' 2@7C3<' &' ;29=:' : <=3,' :32'
B9H < @=56' D:;<H34' 8:36' 23B3<' &;9534' 8 ' H9B3' ?;6' ;24' ?:32' 2D3'
2' 8:3' 7 B3' 98' ?;=')97 ==9C53' 8 ' <;556' 8:37,' 8' ?;=' &832' & @24'
2' 8:3' 29H:8' &' ;' C;8853' 8:;8' 8:3' 7;==' &' 8:3' D;B;5<6' ?;=' 92' &59H:8'
8?3286' 7953=' ;:3;4' &' 8:3' 92&;28<6 ' ?:9D:' 98' :;4' C;=356' 43=3<834,

; 53 2X' ;=' 3B3<6' =8@4328' &' 8:3' ;<8' &' ?;<>2 ?=' :;4' =8;<834'
:9=' D;<33<' ;=' ;2' &5 D3<' &' ;<89553<6 ' ;24' 23B3<' & <H 8' 8:3' &;D8,' 3'
:97=35&' :;=' 53&8' 2' <3D <4' 8:3' =8;8373288:;8' &' ;55' :9=' 8;D89D;5'
=3D<38=' 8:3' D 2D328<;89 2' &' ;2' B3<?:3572H' ;<89553<6' &9<3' 2' ;' H9B32'
928' ?;=' 8:3' 7 =8' 97 <8;28,' ' :32' 2D3' 8:3' D 7C;8' :;=' H< ?2'
: 8' :3' ?< 83 ' 8:3' H323<;5' ?: ' :;=' 8:3' =>955' 8 ' @2983' ;2' 97 =92H'
7;==' &' ;<89553<6 ' =@443256' ;24' ?98: @8' :9=' ;4B3<=;<6' >2 ?534H3'
92' &< 28' &' = 73' 928' &' 8:3' : =8953' =989 2 ' 7;6' C3' =@<3' &' =@DD3==,'
9=' 53;492H' 943;' ?;=' 8 ' =3D973;2' B3<?:3572H' ;<89553<6' <3 ;<;89 2'
& <' :9=' 92&;28<6' ;88;D>=' & <' 8:9=' <3;= 2' :9=' 86 9D;5' C;8853' C3H;2'
?98:' 8:3' 7;==92H' &' ;' H<3;8' 2@7C3<' &' H@2=' 2' 8:3' 928=' &' 8:3'
3237 6A=' 5923' ?:9D:' :3' 92832434',@5897;8356' 8 ' C<3;>' 4 ?2,' 2' 8:9=' <3= 3D8' :3' ;C;24 234' 3289<356 8:3' B9D9 @=' 8;D89D=' 8:;8' <3B;9534

92' 8:3' 3;<593<' 63;<=' &' 8:3' <3B 5@89 2;<6' ?;<' ?:32' 8:3' D;22 2' 92=83;4' &' C392H' D 2D328<;834' ?3<3' 49=8<9C@834' ;C @8' 92' 8? =';24' 8:<33=' ;7 2H' 8:3' 92&;28<6' C;88;: 2=,' 3' =:;55' &924' 8:;8' :9=' 7 38: 4' :;4' C332' 3<&3D856';==9 7 95;834' C6,:9=' =XXC <492;83=K ?:32' 8:3' H< @24' =45 ?34' &' 98' 8:36' ?3<3' 7 @D:' H9B32' 8 ' D 553D892H' 7;26' H@2=';8' = 7 3' =;59328' 928' &' 8:3' 5923' ;24' C<92H92H';' D 2D328<;834' &9X<3 8 ' C3;<' 2' 8C3' ?3;>' = 8' 92' 8:3' 323 7 6A=' =989 2,' 8' D;&9;' ;' C;883<6' &' 8:9=' >924' :;4';' H<3;8' =:;<3' 92' 8:3' D<3498' &' 8:3' B9D8 <6' ;8' 5C@3<;' 98' =;B34' @58A=' < @834' 8< =' &< 7' D 7 5383' 43=8<@D89 2,' :3' 2;73=' &';<89553<6' H323<;5=' 59>3' 32;<7 28' ;24' @86' 2334' : 2 @<;C53' 7 3289 2' & <' =@D:';D:93B3 7 328=,' &' 8:3' <32D:';<89553<6' :;4' 53=' 3&&3D8';H;92=8' 8:3' 2H59=:' 8:;2';H;92=8' 7 =8' &' ; 53 2A=' & 3=' 98' ?;=' C3D;@=3' &' 35592H8 2A=';4 7 9<;C53' D@=8 7' &' :9492H':9=' 89A =' 89 ' 8:3' ;D8@;5' 7 7 328' &' C;8853,' @=8<9;2' @==9;2' <' <@==9;2' H323<;5=' DD@ 934' ;' :955=943' C6' 5 2H' 5923=' 4<;?2' @ ' 2)' 8:3' :98:3<' =5 3' &' ?:9D:' 3B3<6' 7;2' D @54' C3' D @2834,' 32D3' 8:36' D @54' C3' 8: < @H:56'=3;<D:34' @8);24' C;883<34' C6' 8:3' <32D:' H@2=' 5 2H' C3& <3' 8:3' 92&;28<6' ?;=' 538' 5 =3,' 35592H8 2' 2' 8:3' 8:3<' :;24' 5 B34' 8 ' =:' ?';' =989 2';<32856' C@8:;5&.43&32434' B98:' 9=' <3=3<B3=' <' 3B32' :9=' 7;92' 5923' D;<3&@556' :94432' C3:924' 8:3' D<3=8' <' D B3<34' C6' ?;55=';24' :34H3=' <' D 2D3;534' 92' : 55 ?=';24' <;B923=,' 32D3' 8:3' <32D:';<89553<6. <3 ;<;89 2' ?;=' 7@D:' 37V C;<<;==34'K 8:3<3' ?3<3' 2 ' 7;==3=' 8 ' &9<3' ;8 ' ;24' 98' ?;=' 97 ==9C53' 8 ' 8355' : ?';26' ;<8' &' 8:3' 5923' ?;=' :354,' 6' 8:3' 324' &' 8:3' ?;<' 8:3' <32D:' 7;<=:;5=' H<3?' B3<6' D:;<6' &';88;D>92H';26' =989 2' ?:3<3' 35592H8 2' =:' ?34' &9H:8' & <' 8:36' 23B3<' D @54' 8355' ?:38:3<' 8:36' ?3<3' =34' C6';' 73<3' <3;<H@;<4' <' C6';' ?:53';<76' =>95&@556' D 2D3;534,

:3' 2H59=:';<793=9' @259>3' 8:3' <32D:';5?;6=' 8 >' ?98:' 8:37' ;' D 7 ;<;89B356' =7;55' < <89 2' &';<89553<6' =354 7' =' 7@D:';=' 8? ' H@2=')8 ' 8:3' 8: @=;24' 732' ;=' 6' <37;<>=,' @8' ?:;8' 8:3<3' ?;=' ?;=' 3GD355328' &<* 7' 98=' :9H:' 49=D9 5923' ;24' 8:3' ;DD@<;D6' &' 98=' &9<3,' :3' @>3' <3&3<<34' 8 ' ? <>' ?98:' =7;55' ;24' 7 B;C53' @298=' 5;D34' 92' ?355.D: =32' = 8=' ;24' >3 8' 4;<>' 8955' 8:3' D<989D;5' 7 7 328' <;8:3<' 8:;2' ?98:' 8:3' 32 <7 @=' 5923=' &' H@2=' 8:;8' 2;<83')C3593B34' 92,' 9=' :<=3';<89553<6' ?;=' &832' @=:34' 8 ' 8:3' &9< 28' 92' 8:3' 7 =8' 4;<92H' ?;6' 92' <359;2D3' 2' 98=';479<;C53' ?3<' &' 7;2 3@B<92H';24' 98=' D 7 5383' =83;4923==,' 8' @3283=' 4A 2 <' & <' 3G;7 53' 98' ?;=' 7;43' 8 ' D B3<' 8:3' <38<3;8' &' 8:3' <9H:8' ?92H' C3& <3' 8:3' 7;==3=' &' <32D:' D;B;5<6' 92' ;' (B;6' 8:;8' ? @54' :;B3

=33 7 34' 9 7 ==9C53' 8 ';;26' 23' ? : ' ? ;=' 2 8' 3<= 2;556' ;DJ@;92834' ?98:' <7;2' ;7=;6';24' :9=' H@223<=,' 32D3' D;73'8:3';=8 @2492H' &;D8' 8:;8' 4@<92H' 8:3' ?: 53' ?;<' 8:3' @>3' 23B3<' 92' 8:3' 32' &9354' 5 =8';2' 2H59=:' H@2,' 3B3<;5' 89 7 3=' D;22 2' ?3<3' 8;>32';24' <3V 8;>32'S 2D3' <' 8?9D3' H@2=' 2 8' C35 2H92H' 8 ' 8:3' : <=3' <' &9354' C;883<93=' ?3<3' 53&8' C3:924' 92' ;'<38<3;8 ' ?:32' 8<;2= <8'&;9534,' @8' 92' 8:3' ?59 53' =9G' 63;<=' &':9=' D 7 7;24' 35592H8 2' 5 =8' 2 ' H@2=' 92' C;8853,' 6' H9B3=';2' @2 7 9=8;>;C53' 83=897 26' 8 ' 8:3A 2H59=:' ;<89553<6' 92' :9=':9=8 <6 ' C6' <3 7;<>92H' 8:;8' 92' 98=' 7;83<9;5' 98' ?;=' @24 @C83456'=@ 3<9 <'8 '8:3' <32D:' K 8:3'=;73'&;D8' 7;6'C3'B3<9&934' &< 7 ' 8:3' 3B9432D3' &' @<' ?2', &&9D3<=' '=3B3<;5' &' ?: 7 ' :;B3' 53&8' 8:39<' 929 2' 2' <3D <4 ' 8:;8' ;&83<' :;B92H' 92= 3D834' D; 8@<34' <32D:' D;22 2 ' 597C3<3 ' ;24' D;9== 2=' 8:36' 7@D:' <3&3<<34' 8:39<' B2,

:9=' =8;837328 ' 98' 7@=8' C3' <3737C3<34 ' 256' ; 593=' 8 ' 8:3' &9354' ;24' : <=3' ;<89553<6,' :3' 2H59=:' =93H3' ;<89553<6 ' ;55' 8:< @H:' 8:3' ?;<' ?;=' 2 8;C56' 92&3<9 <' 8 ' 8:3' <32D:,' 35592H8 2' 23B3<' ==3==34' ;'"=;89=&;D8 <6' C;883<92H' 8<;92 ' ;24' 8:3' ;?&@5' D =8' ;8' ?:9D:' :9=' =93H3=' ?3<3' 8@<234' 928 ' =@DD3==3=' 9=' ;' 83=897 26'8 ' 8:3' 92;43J@;D6' &':9=' <3= @<D3=,' :3' 92&;28<6' ?3<3' =328' 92' 8 ' B92' C6' =:33<' D @<;H3' ;24' ;8' 83<<9C53' 3G 32=3' &' 59&3 ' 8:3' 5;D3=' 8:;8' D @54' 2 8' C3' <34@D34' C6' 8:3' 955.3J@9 34' =93H3' ;<89553<6,' :3<3' AD;2' C3' 2 ' 4 @C8' 8:;8' 92' 59 <D389D=' 8:3' 32376' ?;=' @<' =@ 3<9 <K' C@8' ?98:' ;' B3<6'=7;55' 2@7C3<' &';<89553<6' &&9D3<=' 8<;9234' 8 ' =93H3' ? <>' ;2' 92=9H29&9D;28' C 46' &' 6;5' 2H9233<=' F;24' <;D89D;556' 2 ' < B9=9 2' &' 8<;9234' =; 3<=' ?:;8' ?;=' 8 ' C3' 3G 3D834' D' 8' ?;=' :8' =8<;2H3' 8:;8' 8:3' <32D:' =: ?34' 8:37=35B3=' 7K 7;=83<=' 92' 8:9=' <3= 3D8,' @8' 8:3' &;@58' 5;6' ?98:' 8:3' <H;29R;89 2' ;8' :3;4' J@;<83<=' 2 8' ?98:' 8:3' ;<89553<6' ;24' 32H9233<' &&9D3<=' &' 8:3' 3292=@5;<';<76' ?:' ';:;4' 8 ' 53;<2' 8:39<' 8<;43' C6' 3G 3<932D3' B98:' @8' :;B92H' <3D39 A 34 ;26' < 3<' 8<;9292H' ;8' : 73,

)' 6 ' 9,' $"%,

*' 8' ?;=' @=@;5' 8 .=@ 537328' 8:3' 73;H<3' =@ 56' &' 32H9233<=' C6' &&9D3<=' ?:' 'B 5@2833<34' &< 7 ' 8:3' 5923,

' :3<3' ?3<3' 256' 8:3' 2' 6;5' 9598;<6' <89&9D3<=' A 92.B3<6'=7;55' 2@7C3<=,' :3' <;2>';24' &953' &' 8:3' 32H9233<' D < =' 494' 2 8' 638' 3G9=8,

B M K

%

$L‘ %‘ ‘ ‘ E# ‘$L

; 53=‘8 ‘8;>3‘@ ‘:9=‘23?‘>92H=:9 ‘8:39)3,‘ ;92‘?;=‘23B3<‘8 ‘=33‘ :97‘;H;92K‘8:3‘D;8;=8< :3‘,?:9D:‘:3‘:;4‘C6‘:9=‘7;=83<A=‘ <43<=‘ 1C< @H:8‘;C @8‘?;=‘8 ‘C3‘D 24@D834‘8 ‘98=‘324‘C6‘ 8:3<)‘:;24=),

:953‘ @<;8‘5;6‘=9D>‘;8‘8:3‘=@C@<C;2‘ ;5;D3‘ &‘ :;7;<892‘ ;24‘?:953‘ ; 53 2‘?;=‘4<;&892H‘ ;D8=‘;24‘D 2=898@89 2=‘?:9D:‘ 8:3‘;==37C56‘ &‘2 8;C53=‘;8‘ ;6 223‘?3<3‘8 ‘;DD3 8‘;24‘ @C59=:‘ 8:3‘&9<=8‘;D8=‘ &‘?;<‘C38?332‘8:3‘92=@<H328=‘;24‘8:3‘ <32D:‘;<76‘ &‘ DD@ ;89 2‘8 >‘ 5;D3,

3‘ :;B3‘;5<3;46‘:;4‘ DD;=9 2‘8 ‘ 928‘ @8‘8:;8‘8:3‘7;92‘ 79598;<6‘=8<32H8:‘ &‘8:3‘92=@<<3D89 2‘5;6‘92‘%;59D9;‘;24‘ 24;5@=9;‘ 8:3,8?‘ 49=8<9D8=‘92‘?:9D:‘5;<H3‘C 493=‘ &‘<3H@5;<‘8< =‘:;4‘ 5;D34‘ 8:37=35B3=‘;8‘8:3‘49= =989 2‘ &‘8:3‘23?56‘ <H;29R34‘X@28;=,‘ 2‘ ‘;/;532D9;‘ ;8;5 29;‘;24‘ @<D9;‘8:3‘7 B37328‘?;=‘7@D:‘?3;>3<K‘ 92‘ 54‘ ;=8953M‘ <;H 2‘;24‘8:3‘ =8@<9;=‘98‘:;4‘:;<456‘;26‘ 8:3<‘ & <D3=‘;8‘98=‘49= =;58:;2‘: <43=‘ &‘:;5&.;<734‘ 3;=;28=,‘ 53;<56‘ 8:32‘%;59D9;‘;24‘ 24;5@=9;‘?3<3‘8:3‘4;2H3< @=‘ 928=‘& <‘8:3‘ <32D:‘;24‘8:3‘&<73<‘7 <3‘8:;2‘8:3‘5;883<‘=92D3‘;2‘;<76‘43V =D32492H‘&< 7‘98=‘:955=‘;24‘&;5592H‘ 2‘8:3‘5 2H‘5923‘ &‘D 7 7@29D;89 2=‘ C38?332‘ 9.;2D3‘;24‘ ;4<94‘7 9H:8‘D;@=3‘8:3‘H<;B3=8‘92D 2B32932D3,‘ &‘8:3<3‘:;4‘C332‘;26‘ <H;29R34‘ ;29=:‘& <D3=‘92‘ <;H 2‘8:3<3‘ ? @54‘:;B3‘C332‘;2‘3J@;5‘4;2H3<‘ &‘;2‘;88;D>‘49<3D834*‘ &< 7‘ ;<;H ==;‘;H;92=8‘8:3‘3;=83<2‘&5;2>‘ &‘8:3‘ <32D:‘D 7 7@29D;89 2=,‘ @8‘?:953‘%;59D9;‘?;=‘ ==3==34‘ &‘;‘2@73< @=‘;<76‘ &‘<3H@5;<‘ 8< =‘ <;H 2‘:;4‘2 8:92H‘8‘ =:?‘C@8‘;‘7;==‘ &‘:;=8956‘ ;==37C534‘ 3;=;28=‘?:‘?3<3‘2 8‘638‘&@556‘ 9A B9434‘?98:‘;<7=‘ ;24‘?3<3‘256‘X@=8‘C3H92292H‘8‘C3‘8 54‘ &&‘928‘C;88;59 2=,

; 53 2‘;8‘8:3‘7 7328‘?:32‘:3‘C3H;2‘8 ‘ <43<‘:9=‘8< =‘ 8 ‘7 B3‘?;=‘@243<‘8:3‘97 <3==9 2‘8:;8‘:3‘:;4‘8 ‘43;5‘?98:‘;‘ 2@7C3<‘ &‘9= 5;834‘<9 8=‘<;8:3<‘8:;2‘?98:‘;‘H323<;5‘92=@<<3D89 2‘ &‘8:3‘ ;29=:‘2;89 2,‘ 9=‘&9<=8‘ <43<=‘=:?‘8:;8‘:3‘97;H9234‘ 8:;8‘;‘&3?‘&5692H‘D 5@72=‘? @54‘C3‘;C53‘8 ‘=D @<‘8:3‘49=;&&3D834‘ 49=8<9D8=‘;24‘=D;883<‘8:3‘C;24=‘ &‘92=@<H328=‘?98: @8‘7@D:‘8< @C53,‘ 2=83;4‘ &‘;‘=8<;83H9D;5‘ 5;2‘& <‘8:3‘D 2J@3=8‘ &‘ ;92‘?3‘&924‘ 92‘:9=‘49<3D89 2=‘2 8:92H‘7 <3‘8:;2‘< B9=9 2=‘& <‘8:3‘5;@2D:92H‘ &‘;‘=7;55‘D 5@72‘;H;92=8‘3;D:‘ 928‘?:3<3‘:3+*:;4‘C332‘92& <734‘ 8:;8‘;‘<9=92H‘:;4‘C< >32‘@8,‘ 3‘ <3=@ =3=‘8:;8‘8:3‘>92H4‘7‘ ;=‘;‘?: 53‘9=‘J@938‘;24‘8:;8‘C 493=‘ &‘M ###‘ <‘L ###‘29)32‘7;6‘ 7;<D:‘;26?:3<3‘?98: @8‘:;B92H‘8‘ < B943‘& <‘8:3‘7;92832;2D3‘ &‘ 8:39<‘D 7 7@29D;89 2=‘?98:‘ ;4<94‘<‘?98:‘3;D:‘8:3<,‘ 256‘92‘;‘ &<93245 6‘D @28<6‘?@54‘98‘:;B3‘C332‘ ==9C53‘8‘D;<<6‘@8‘=@D:‘<43<=,

:3<3 ?3<3 ;8 8:3 7 3< <A= 49= =989 2 ;8 8:3 324 & ;6 = 73
N ### 732 C36 24 8:3 6<3233=K C@8 8:3 $N ### 8< = @243<
-@2 8 92 <8@H;5 ?3<3 = D 7 538356 D@8 &&& < 7 8:3 <3=8 C6 8:3
92=@9 3D89 2 92 ;=8953 ;24 =8<37 ;4@<; 8:;8 8:36 :;4 8 .C3 53&8
@8 &D 2=943<;89 2, &8:3 <37 ;9243<8:3 D < = & @ 28 ;24
2D36 I ### =8< 2H 5;6 92 ;24 ;C @8 ;4<94K 3==93<3= 8
1((i9 7 8:3 <3=3<B;89 2 &8:3 7 ;92 5923 &D 222@29D;89 2= ?98:
<;2D3 &355 :;4 = 73 $ ### C38?332 @<H = ;24 ;2 3C;=89;2K
@:3=73 9= 5;834 ;8 ;<D35 2; ;24 D 7 7@29D;892H ?98: <;2D3
C6 3< 9H2;2 ;24 2 8 C6 ;6 223 :;4 256 = 73 I ### ;8 :9=
49= =;5 92 ;8;5 29;, 8 8:3 &9<=8 ?33> 92 -@23 8:3 7 3< <
8: @H:8 8:;8 8:3 " ### 732 &8:3=3 &@<D < = ? @54 C3 32 @H:
8 ;D9&6 ;92,

59= &9<=8 43=9H2 ?;= = 73?:;8 ;= & 55 ?=K 3==93<3= ?);= 8 >33
;&9<7 :;24 2 8:3 5923 &D 7 7@29D;89 2= C@8 ;5= 8 438;D:
; 49B9=9 2 & L ### 732 @243< 3&3CB<3. 3=2 @3883= ;H;92=8
;<;H ==; ;24 ;C<9H;43 @243< 3<53 8 ;D9&6 ;28;243< ;24 8:3
2 <8:3<2 5988 <;5, :3 7 3< < 4 3= 2 8 ;8 &9<=8 =337 8 :;B3
<3;59R34 8:;8 ?8:8:3 ;<76 &%;59D9; :;2H92H 2 :9= ?3=83<2
&5;2> 3==93<3= 79H:8 2 8 C3 ;C53 8 = ;<3 732 & <=@D: 49=8;28
3283< <9=3=, 3 43;58 ?98:8:3 D < = ;= 9& 98 :;4 2 8:92H 8 &;D3
=;B3 8:3 5 D;5 92=@<H328= & <;H 2 ;24 54 ;=8953, < 7 8:3
5;<H3 C 46 &8< = ?:9D:5;6;C @8 ;4<94 534 ;24 <;2X@3R
8? =8< 2H D 5@72= ?3<3 8 C3 49= ;8D:34 8 =8<9>3 ;8 8:3 8?
7;92 D328<3= &8:3 92=@<<3D89 2 92 @8:3<2 ;92, @ 28 ?;= 8 8;>3
8:3 &9<=8 49B9=9 2 & :9= ;<76 D < = ?98: 8? C<9H;43= &D;B;5<6
;24 ;&3? 8:3<8< = ;24 7;<D: 2 <4 B; ;24 3B9553, :9=
H;B3 :97 2 7 <3 8:;2 ;C @8 I ### 732 & <8:3 =@CX@H;89 2 &
8:3 5;<H3 ;24 @5 @= < B92D3 & 24;5@=9;, :3 8:3<8?
92&;28<6 49B9=9 2= & :9= D < = <37;9234 & <8:3 <3=328 23;<
;4<94

2 8:3 8:3<=943 &8:3 D; 98;5, ;<=:;5 2D36 ?98:;= 73V
?:;8 =7;553<& <D3 23 49B9=9 2 &92&;28<6 &< 7 :9= ?2 ;<76
D < = ;24 23 C<9H;43 &D;B;C6 " ### 732 92 ;55 ?;= 8 7 B3
2 /;532D9; ;24 8 8;>3 ==3==9 2 & 8:;8 D986 ;24 &8:3 H<3;8
2;B;5 ;<=32;5 & ;<8;H32;, 9= 3G 34989 2 ?;= 8 C3 =@ <834
C6,;;49B3<=9 2 &< 7 8:3 =943 & ;8;5 29;;& <@:3=73 092 = 983
&8:3 =7;555@97C3< &:9= ;<76P ?;=8 54 8 =324 ;D 5@72 ;5 2H
8:3 =3;.D ;=8< @83 C6 ;<<;H 2;;24 <8 =;8 8:<3;832 /;532D9;
* <438;95= &:9=& <D3 =33 8:3 2 83 2 , M$.I

$N‘ %‘ ‘ ‘ E# ‘<H

&< 7‘8:3‘2 <8:,‘ 2D36A=‘<37;9292H‘92&;28<6‘49B9=9 2=‘?:9D:‘?3<3‘
2 8‘438;9534‘& <‘8:3‘3G 34989 2‘8:;8‘:3‘?;=‘8 ‘53;4‘<37;9234‘23;<‘
;4<94‘;B;95;C53‘059>3‘ @ 28A=‘=3D 24‘;24‘8:9<4‘49B9=9 2=P‘& <‘8:3‘
<392& <D37328‘ &* 3==93<3=‘ <‘8:3‘=8<32H8:3292H‘ &‘8:3‘8? ‘3G 349V
89 2;<6‘D 5@72=‘;=‘D9<D@7=8;2D3=‘79H:8‘43D943,

53;<56‘ @ 28‘;24‘ 2D36‘?3<3‘, <8:‘=328‘& <8:‘8‘@24&998;>3‘
97 ==9C53‘8;=>=,‘ ; 53 2‘:;4‘2 8‘D 7 <3:32434‘8:;8‘98‘?;=‘2 8‘
< B92D9;5‘ 8:;8‘:3‘:;4‘8‘D<@=:‘C@8‘8:3‘<3H@5;<‘<3=9=8;2D3
&‘;‘2;89 2,‘ ‘=324‘;‘D 5@72‘ &‘ $###‘732‘ 2‘;‘29;<D:‘8:< @H:‘
I##‘7953=‘ &‘: =8953‘83<<98 <6‘8‘ ;49R‘<‘;‘D 5@72‘ &‘" ###‘732‘
2‘;‘7;<D:‘ &‘ M#‘7953=‘8‘/;532D9;‘ <3=@ =3=‘8:3‘943;‘8:;8‘8:3‘
3G 34989 2=‘ ;<3‘ ;&&;9<=‘ &‘ 59D3‘;24‘2 8‘=8<;83H9D;5‘ 3<;89 2=,‘
@<‘;=8 29=:7328‘H< ?=‘H<3;83<‘?:32‘?3‘D 2=943<‘8:3‘D:;<;D83<‘ &‘
8:3‘8< =‘?:9D:‘ @ 28‘;24‘ 2D36‘D 77;2434,‘ 2‘8:3‘;<76‘
&‘8:3‘& <73<‘8:3<3‘?;=‘ ‘B383<;2‘ <32D:‘C;88;59 2 8:;8‘ &‘8:3‘
;‘ ;<923=‘ &‘8:3‘%@;<4‘=9G‘ &‘<;?‘<3D<@98=‘ &‘8:3‘ 3H9 2=‘ &‘ 3=3<B3‘
8?‘ &‘ ;<9=‘ @29D9 ;5‘%@;<4=‘0=8<;2H356‘49=8<;D834‘&< 7‘8:39<‘@=@;5‘
4@893=P‘ 23‘ &‘8:3‘D 2892H328‘ &‘8:3‘ 35B389D‘ 2&343<;89 2‘;24‘
& @<‘ &‘ ?9=‘=73<D32;<93=‘92‘8:3‘ ;29=:‘=3<B9D3.?:‘:;4‘X@=8‘C332‘
D 7 35534‘8‘8<;2=&3<‘8:39<‘;553H9;2D3‘8‘ ; 53 2,‘ :3‘D;B;5<6‘
D 2=9=834‘ &‘& @<‘T‘ < B9=9 2;5‘<3H97328=A‘ &‘D 2=D<9 8=,‘ 8‘2B;,=*;‘
7 9598;<6‘D<97 3‘ &‘8:3‘ &9<=8‘ <43<‘8‘=324‘ I###‘8< =‘ &‘8:9=‘
J@;5986‘ 2‘;2‘97 <8;28‘3G 34989 2,‘ 2D36A=‘& <D3‘?;=‘ &‘3G;D856‘ J
8:3‘=;73‘= <8 39H:8‘C;88;59 2=‘ &‘D 2=D<9 8=‘& <734‘92‘T‘ < B9=9 2;5‘
<3H97328=A‘;24‘8?‘ T < B9=9 2;5‘<3H97328=A‘ &‘4<;H 2=‘ 5@=‘;‘
3=8 :;59;2‘C;88;59 2‘;24‘8?‘ ;29=:‘D < =‘?:‘43=3<834‘ ‘
‘?:32‘8:36‘?3<3‘92& <734‘8:;8‘8:36‘?3<3‘8‘7;<D:‘;H;92=8‘
/;532D9;‘92‘D 7 ;26‘?98:‘8:3‘7;<=:;5A=‘ <32D:‘8< =,‘ 3‘:;4‘
2 8‘23‘=92H53‘D 7 ;26‘<‘=J@;4< 2‘ &‘732‘C35 2H92H‘8‘8:3‘ 54‘
97 3<9;5‘;<76,

3==93<3=‘?;=‘7@D:‘7 <3‘& <8@2;83‘;=‘;7 2H‘8:3‘$ ###‘732‘ &‘
?: 7‘:3‘D @54‘49= =3‘8:3<3‘?3<3‘& @<‘/383<;2‘C;88;59 2=‘ &‘8:3‘
5923‘;24‘8?‘ 54‘<3H97328=‘ &‘D;B;5<6$7 <3 B3<‘8:3<3‘?3<3‘=328‘
3<3‘5 2H‘8‘:9=‘;94‘8:<33‘ &‘8:3‘C;88;59 2=‘ &‘8:3‘ 7 3<9;5‘%@;<4‘
?:9D:‘5;6‘;8‘ ;4<94‘;24‘& @<‘:@24<34‘=;C<3=‘ &‘8:3‘4<;H 2=‘
D:;==3@<=‘;24‘H324;<73=‘ &‘8:3‘=;73‘&;7 @=‘D <=,

:3‘7;<D:‘ &‘8:3‘8?‘3G 34989 2;<6‘D 5@72=‘C3H;2‘ 2‘ ;6‘$Lb‘
;‘4;83‘;8‘?:9D:‘ @<;8‘;24‘:9=‘7;=83<‘:;4‘C@8‘8:3‘&;9283=8‘2 89 2‘
&‘8:3‘.?943*.= <3;492H‘<3B 58‘?:9D:‘?;=‘2‘& 8,‘ 2D36‘;24‘
@ 28‘?3<3‘C 8:‘ &&9D3<=‘ &‘49=892D89 2$8:3‘7;<=:;5‘?;=‘23‘ &

8:3f 543=8f ;24f8:3f 7 =8f<3= 3D834f &&9D3<=f &f8:3f97 3<9;5f ;<76Kf :3f :;4f? 2f8:3fH<;43f &fH323<;5f &f49B9=9 2f92f8:3f4;6=f &f8:3f 3 @C59Df ;24f494f2 8f ?3f :9=f &9<=8f =8;<8f92f59&3f8 f ; 53 2,f &f;55f8:3f 7;<=:;5=f :3f?;=f C6f=3B3<;5f63;<=f8:3f=329 <,f 3f ==34f;=f;f=83;46f D; ;C53f;24f <@4328f &&9D3<f &fB;=8f 3G 3<932D3,f @ 28f 2f8:3f 8:3<fT:;24f?;=f;f6 @2Hf 7;2f?: f :;4f&9<=8f ? 2f;f2;73f C6f:9=f C<9559;28f D @<;H3f;8f8:3f D 7C;8f* &f 9<2=8392f92f8:3f @=8<9;2f?;9* M# ,f 92D3f8:32f:3f:;4f49=892 9=:34f:97=35&f;8f <9345;24Kf :3f?;=f 2f8:3f?;6f8 f<; 94f < 7 89 2f ;24f)9&f:9=f 3G 34989 2f8 f 24;5@=9;f :;4f =@DD33434f 79H:8f :;B3f D @2834f 2f ;f 4@D:6f ;24f ;f 7;<=:;5A=f C;8 2f ;=f :9=f<3?;<4,f ; 53 2f>23?f:97f ;=f;fC<;B3f ;24f5 6;5f=@C <492;83f C@8f :;4f23B3<f C3& <3f H9B32f:97f ;2f9243 32V 4328f D 7 7 ;24,f 3f D @54f:;<456f H@3==f8:;8f ?:32f53&8f8 f:9=f ?2f 92= 9<;89 2=f=@D:f;f C<9559;28f &&9D3<f ? @54f8@<2f @8f8 f C3f495;8 9A6f ?;2892Hf92f92989;89B3f;24f?: 556f43=898@83f &f7 <;5fD @<;H3,f 8f9=f 97 ==9C53f8 fX@4H3f?98:f92&;559C53f;DD@<;D6f: ?f;fH 4f593@832;28f ?955f C3:;B3f?:32f&9<=8f8:3f5 ;4f &f<3= 2=9C95986f9=f5;94f@ 2f:9=f =: @543<=,f 2f ;6f$Lf99 28f J@98834f 534f?98:f:9=f I ###f 732Kf92f8:3fC< ;4f 5;92=f &f ;f ;2D:;f:3f738f B98:f2f =989 2,f B3<6 B:3<38:3f 3 53f?3<3f=@5532fC@8f2f 32f: =895986f?;=f=: ?2,f B32f92f8:3f8<3724 @=f43&953=f &f8:3f 93<<;f <32;f:3f& @24f2f 32376f;24fD< ==34f8:3fH<3;8f ;==f &f 3= 32;. 3<< =f?98: @8f:;B92Hf *8f&9<3f;f=: 8,f 792Hf @8f;8f98=f= @8:3<2f324f:3f DD@ 934f 24@X;<f 8:3f8 ?2f;8f8:3f 7;9&9fX@2D89 2f &f< ;4=f92f ;=83<2f 24;5@=9;f 2f -@23fN,f 3<3f:3f H 8f D53;<f9283559H32D3f8:;8f8:3f?: 53f D @28<6V =943f?;=f@ f92f;<7=K 3B9553f:;4f<9=32f 2f ;6f$Nf;24f8:3f<3=8f &f 8:3f < B92D3f:;4f& 55 ?34f98=f3G;7 53,f :3<3f?;=f;f5;<H3f;==37C56f &f;<734f 3;=;28=f 7@=83<92Hf;8,f <4 B;fC@8f8:3,f<3H@5;<f8< =f:;4f2 8f638f C332f C< @H:8f@ f8f8:3f&9) 28,f %<323<;5f ;=8;2 =f?: 7f8:3f-@28;f:;4f 5;D34f92fD:93&fD 77;24f?;=f=8955f C@=956f 32H;H34f92fD 2D328<;892Hf:9=f=D;883<34fC;88;59 2=f& <792Hf8:37f928 fC<9H;43=f;24f49B9=9 2=f;24f:;=8956f&95592Hf@ f?98:f<3D<@98=f8:3f 32 <7 @=fH; =f?:9D:f3G9=834f92f8:3fH<3;83<f ;<8f &f8:3fD < =,f :3f <3H@5;<=f?3<3fC392Hf H 8f8 H38:3<f;8f;fD;7 f;8f ;<7 2;f=@8:f &f 8:3f%@;4;5J@9B9<f;24f2 8f&;<f&< 7f 3B9553,f :3f <H;29R;89 2f &f 23?fC;88;59 2=f&< 7f8:3f5;<H3f2@7C3<f &fB 5@2833<=f?: f<37;9234f ?:32f8:3f 54f<3H97328=f?3<3fD 7 53834f8 >f 5;D3f35=3?:3<3,f 8f ? @54fC3f?33>=f<;8:3<8:;2f4;6=fC3& <3f8:3f@2 <H;29R34f7;==8 >f =:; 3f;=f;2f;<76f;24f @X 28f79H:8fD @28f 2f;fD 2=943<;C53f<3= 983f C3& <3f C392Hf ;88;D>34,f @8f98f?;=f2 8f256f B98:f8:3f& <D3=f &

;<A I $ $ $ $ E:- /@

;=8;2 =8:;8:3:;48 <3D> 2K ;8 <4 B; 3B9553 %<;2;4;;24 ; 8:3 8:38 ?2= &24;5@=9;8:3 3;=;28= ?3<3&5 D>92H92 8 C3;<734;24 8 54 &&928 23?<3H97328=, :3<3?;=3B3<6 < C;V C95986 8:;8 92 ;*&3? 4;6=89<3 7 B37328 ? @54 = <3;42 <8:?;<4 B3<8:3 93<<;, <32;928 ;; 2D:;, 2 92=@<<3D89 2 92 8:9= 49=8<9D8 ? @54=3B3< @ 28A= D 7 7@29D;89 2= ?98:; 4<94 & <:3 :;42 8 53&8 C3:924:97; 26 =@&&9D9328 438;D:7328= 8 H@;<48:3 43&953= ?:9D:3:;4X@=8 ;==34 <8 >33 32 8:3H<3;8 =8V <;4 8 8:3D; 98;5 ;D< == 8:3 5;92= &3?; =8953, :32:3 =8;<834:3:;4C332 @243<8:3 97 <3==9 2 8:;8 98 ?;= 256 5 D;5 8< @C53= 92 24;5@=9;8:;8 :3:;4 8 =@ <3==,

@ 28 ?;=;5<3;46 C3H92292H 8 &924 8:;8 8:3 92=@<H328= ?3<3 92 7@D: H<3;83< 2@7C3<= 8:;2 :3:;4 3G 3D834 ?:32:3 D< ==34 8:3 93<<; <32;C@8 8955 :3:;4 7;43 8<9;5 &8:39< =8<32H8: :3 D 2=943<34 8:;8 98 ? @54 C3 ?< 2H 8 :;58, 3:;4 D5 =3 C3& <3 :97 8:3 H<3;8 D986 & <4 B; ;7 =8 837 892H <9R3 ;24 :3 <3= 5B34 8 @=: 2;8 53;=8 = &;< C3& <3 8;>92H 98 @ 2:97=35& 8 :;58;24 ;=> & < <392& <D37328=, 9= D 2892@34 7 B37328 = 2 C< @H:8;C @8 8:3 &9<=8 32H;H37328 &8:3?;<;=;8 8:3 C<94H3 &5D 53;:3 & @24 :9=;4B;2D3 49= @834 C6 ;D 2=943<;C53 : =8953 & <D3 W-@23],

:3 7 9598;<6 D 7 7;24;28 &8:3 49=8<9D8 & <4 B; B;=;D3<8;92 2 34< 43 D:4B;<<9;<389<34 D 5 235?:7 8:3 5 D;5 -@28;:;4 X@=8 5;D34 92 D 7 7;24 &98= 53B93=, 9= & <D3 D 2=9=834 & # ### < $ ### 3;=;28=;24 D989R32= ?:;4 256 <3D39B34 8:39<;<7= 8:<33 4;6= C3& <3;24;;4 2 8 638 C332 D 7 538356 8 54 &&928 <3H97328= ;24 D 7 ;293=, , 2 8:3 L8: &-@23 :3;;4 C332 =328 ;=7;55 C 46 &54 8< = 23 C;88;59 2 &59H:8 92&;28<6 0 ;7 ;6 <P;24 23 &7 95989;08:3 I<4 < B92D9;5%<32;493<= & ' 24;5@=9;P. L## 732 92 ;55;24 B98:8:37 39H:8 H@2=, :;B3 ;C;24 234 <4 B; @8: @8;&9H:8 ? @54 :;B3 49=D @<;H34 8:3 23 B 53B93=;24 < C;C56 :;B3 534 8 D:4B;<<9A= ?2 43;8: & <8:3 ;<734 7 C ?:9D:3)D 7 7;2434 ? @54 : 3 8 7 :97 8 93D3=) = ;8<;98 <9&:3:;4<3&@=34 8 H9B3 C;8853,) DD <492H56 :3<3= 5B34 8 43&324 8:3 ;==;H3 &8:3 %@;4;5J@9B9<;8 8:3 928 ?:3<3 8:3 :9H:.< ;4 &< 7 24@X;<,D< ==34 98 =9G 7953= @8=943 <4 B; 3 C;<<9D;434 8:3 C<94H3;24 5;D34 :9=H@2=;24 8:3 8? 54 C;88;59 2= 2 8:3 3 :98:3<=943 &8:3 <9B3<92 ; =989 2 D 7 7;2492H 8:3 43&953, 2 3;D:&5;2> &8:37 = 73 8: @=;24= &8:3 <4 B;2 92=@<H328=)3<34<; B2 @ ?:953 8:3 <37;9243< &8:3 53B6 92D5@492H ;55 8:3

7 @2834 7 32 ? 3<3 =328 ; D< == 8 : 3 C<94H3 ; 24 : 94432 92 = 7 3 : 955= ? : 9D : B3< : @2H 8 : 3 < ; 4 C6 ? : 9D : 8 : 3 <32D : ? 3<3 D 7 92H, : 36 ? 3<3 <43<34 8 = : ? 8 : 3 7 =35B3= ; 24 8 8 : <3 ; 832 8 & ; 55 @ 2 8 : 3 323 7 6 &< 7 8 : 3 &5 ; 2> ? : 32 : 3 = : @54 : ; B3 43B35 34 : 9= ; 88 ; D> @ 2 8 : 3 C<94H3, & D : 4B ; <<9 : ; 4 C332 H@9434 C6 7 9598 ; <6 D 2V =943< ; 89 2= : 3 ? @54 2 8 : ; B3 4 ; <34 8 &&3< C ; 8853 ? 98 : =@D : ; < ; ? ; <94 7 8536 & <D3 8 $ ### <32D : 8< = 3B32 9& 8 : 3 5 ; 883< ? 3<3 C@8 8 : 3 D 2=D<9 8= & @ 28, @8 5989D ; 5 23D3==986 D 7 35534 : 9 7 8 7 ; >3 8 : 3 ; 8837 8,

: 32 @ 28 & @24 8 : 3 =989 2 & 5D 53 ; DD@ 934 : 3 D ; 2V 2 2 ; 434 8 : 3 ; 29 ; <4= & < ; 89 7 3 ; 24 8 : 32 5 ; @2D : 34 : 9= B ; 2H@ ; <4 ; H ; 92=8 8 : 3 C<94H3, : 3 53 ; 492H C ; 88 ; 59 2 098 ? ; = 23 & 8 : ,=3 & < 7 34 & 8 : 3 ; <9= @29D9 ; 5 %@ ; <4=P =8 < 7 34 8 : 3 C ; <<9D ; 43= ?98 : = 7 3 5 == ; 24 C3H ; 2.8 D< == 8 : 3 <9B3<, &83< 98 8 : 3 <3=8 & ; 223893<h= C<9H ; 43 & 55 ?34 ; 24 C3H ; 2 8 43 5 6 & < 8 : 3 ; 88 ; D> 2 8 : 3 ; 29= : =989 2, 8 8 : 9= 7 7 328 8 : 3 <4 B ; 2 53B93= C36 24 8 : 3 <9B3< = : ?34 8 : 3 7 =35B3= ; 24 C3H ; 2 8 8 : <3 ; 832 ; & 5 ; 2> ; 88 ; D> 2 @ 28, : 3 5 ; 883< =328 : 9= D ; B ; 5<6 ; H ; 92=8 8 : 3 7 ; 24 ; &3? D : ; <H3= = 2 8 7 7 34 C ; D> 8 : 3 43 7 2=8< ; 89 2 ; 24 =D ; 883<34 8 : 3 < ; ? 8< = ? : : ; 4 7 ; 43 98, 3 ; 2 ? : 953 @ 28h= 92& ; 289 ; 4B ; 2D34 ; 24 B3< ?3<34 8 : 3 8 ? <3H@5 ; < C ; 88 ; 59 2= =34 8 8 : 3 7 k =33V 92H 8 : 3 5923 C< >32 8 : 3 7 ; ==3= &92= 7 .H328= 2 8 : 3 &5 ; 2>= 53&8 8 : 3 &9354 ?98 : @8 ; 26 =3<9 @= &9H : 892H, : 3 ? : 53 : <43 H ; B3 ? ; 6 ; 24 @<34 C ; D> 928 <4 B ; ; 24 <9H : 8 8 : < @H : 8 : 3 D986 ? : =3 <@9234 ? ; 55= 8 : 36 7 ; 43 2 ; 8837 8 8 43&324, : 36 : ; 4 5 =8 B3<6 &3? 732 < C ; C56 2 7 <3 8 : ; 2 $## 92 ; 55 ? : 953 8 : 3 <32D : : ; 4 =@&&3<34 3B32 53== 8 : 39< 256 D ; =@ ; 5893= C392H 8 : 9<86 >9553 4 ; 24 39H : 86 ? @2434 ? 3 29H : ; 92 8 : 3 C ; 88 ; 59 2 ? : 9D : : ; 4 & <D34 8 : 3 C ; <V <9D ; 43= ; 8 8 : 3 C<94H3,

: 3<3 ? @54 C3 2 <3 ; = 2 8 592H3< 3B32 & < ; 7 7328 B3< 8 : 9= 92=9H29&9D ; 28 =>9< 79= : 9&98 : ; 4 2 8 C332 & < 8 : 3 43 5 < ; C53 3B328= ? : 9D : & 55 B34 3B328= ? : 9D : 494 7 <3 8 H9B3 ; &3< D9 @= D : ; < ; D83< 8 8 : 3 ? ; < 8 : ; 2 ; 26 8 : 3<= = ; B3 3< : ; = 8 : 3 7 ; == ; D<3 C6 ; 5B ; 8 / ; 532D9 ; ? : 9D : ? ; = 8 ; >92H 5 ; D3 0 ; = 98 D : ; 2D34 2 8 : ; 8 B3<6 ; 73 4 ; 6 -@23 ,

@ 28 ; &83< H9B92H : 9= ; < 76 ; = : <8 <3=8 534 98 =8955 < ; 2H34 92 C ; 8853 ; << ; 6 ; D< == 8 : 3 =9G 7953= & 5 ; 92 ? : 9D : =3 ; < ; 834 : 97 &< 7 <4 B ; , 3 3G 3D834 8 &924 8 : 3 43&3 ; 834 ; < 76 & D : 4B ; <<9 < ; 55692H 98=35& ?98 : 92 8 : 3 D986, @8 2 ; <<9B92H 92 &< 28 & 98= H ; 83= : 3 & @24 8 : 3 ? ; 55= @2 DD@ 934 ; 24 8 : 3 =@C@<C= 43=3<834,

I$ %' ' ' E: - /' "

=989 2,' 3' :;4' C332' =@&&9D932856' =@< <9=34' C6' 8:3' =989 <8'
&&3<34';8' 5D 53;';24'8:3'<@7 @<=' &'8:3'D 2D328<;89 2' &'8:3';<76'
&' ;=8;2 ='8 ' 7;>3' :97' @2?95592H' 8 ';4B;2D3' C36 24' <4 B;,'
3' ?< 83' 8 ' @<;8' ;=>92H' & <' <392& <D37328='';24' 3= 3D9;556'& <'
8< =' 8 ' >33 ' 32' :9=' 5923=' &'D 7 7@29D;89 2,' :3<3')3<3'
:3'=;94';8'53;=8'$ ###'<3H@5;<' 8< =' 7;<D:92H';H;92=8':97'K' 8:3'
2H59=:' 79H:8' 49=37C;<>' <392& <D37328=' ;8' ;0CRK' 8:3' ?: 53'
< B92D3'?;=' 92';'&5; 73K' 98'?;=' 97 ==9C53'8 'D;<<6' @8'8:3'%<;24.'
@>3' &' 3<HA=' <9H92;5' <43<=' 8 ' @=:' =8<;9H:8' 2' 8 ' 3B9553,'
@8' 7;883<=' ?3<3' 3B32' ? <=3' 8:;2' :3' 8: @H:8K' 92';'&3?'4;6=' :3'
<3;59R34' &< 7' 8:3' 2 2.;<<9B;5' &'D @<93<=' &< 7' ;4<94' 8:;8' :3'
?);=' D@8' &&K' 7 <3 B3<' :9=' & <;H92H' ;<893=' 3B32' ?:32' 8:36' ?3<3'
256';'&3?'7953=' @8=943' <4 B;' C3H;2'8 'C3' 7 53=834';24' = 73V
897 3=' 43=8< 634,

&83<' ?;9892H' 2923' 4;6=' @ 28' B3<6' ?9=356' <3= 5B34' 8 ' &;55'
C;D>';24'8 ' 3243;B @<' 8 ' <3 32' D 7 7@29D;89 2=' ?98:' :9=' C;=3,'
2' -@23' ' :3' 3B;D@;834' <4 B;' 7@D:' 8 ' 8:3' <3H<38' &' :9=
= 5493<=' ?: ' <3=32834' 8:3' <43<' 8 ' ;C;24 2' =@D:' D 7& <8;C53'
J@;<83<=,' 2' 8:3' 292383328:' 4<;HH92H' ?98:' :97';2' 32 <7 @='
D 2B 6' &' 5@243<' :3'<3;D:34' 24@X;<'8:3'H<3;8'X@2D89 2' &'< ;4='
?:3<3' 8:3' < @83=' &< 7' 8:3' ;==3=' &'8:3' <32;' D 73' 4 ?2' 8 '
8:3'B;5536' &'8:3'%@;4;5J@9B9<,' 8' ? @54' :;B3' C332' &;<' ?9=3<' 8 '
H '=8955' &99<8:3<' C;D>';24'8 ' DD@ 6'8:3'43C @D:3=' &'8:3' 43&953='
92=83;4' &'592H3<92H'92' 8:3' 5;92' &' 24;5@=9;,' 3' =: @54' :;B3'
<389<34' 8 ' ;6532'8:3' 8 ?2';8'8:3'& 8' &'8:3' 7 @28;92=' <' 8 '
;' ;< 592;' 8:3' & <8<3==' 92' 8:3' @ 5;24' ?:9D:' D 7 7;24=' 8:3'
= @8:3<2'3G98' &'8:3' 3= 32;' 3<< =,' @8':3' ?;=)B;9256'4<3;7 92H'
&'<3=@7 92H' 8:3' ;8837 8' 8 ' D 2J@3<' 8:3' ?: 53' = @8:' &' ;92'
?:32' <392& <D37328=' =: @54' ;<<9B3' ;24' 24@X;<' 837 834' :929'
=92D3'98'?;=' 8:3' C3=8' 928' &< 7' ?:9D:' :3' D @54' 8:9A3;832' ;8' 2D3'
<4 B;' -;32' ;24' %<;2;4;' 8:3' 8:<33' D:93&' 8 ?2=' &' ;=83<2'
24;5@=9;,' 3< '8:3<3& <3':3' ;C 43' &< 7' -@23' "' 8 ' -@56' '
;' ?39=834' 7 28:' 4@<92H' ?:9D:' 8:3' ?: 53' =98@;89 2' &' ;&&;9<=' 92'
;92' ?;=' D:;2H34,

3<3' ?3' 7@=8' 53;B3' @ 28' ?:953' ?3' 8<3;8' &'8:3' 4 92H=' &'
8:3' 8:3<' <32D:' H323<;5=' 4@<92H' 8:3' 7 28:' &' -@23,' :953' 8:3'
92B;=9 2' &' 24;5@=9;' ?;=' <@2292H' 98=' D @<=3' C 8:' 2D36' ;24'
3==93<3=' :;4' C332' =3<9 @=56' 32H;H34,

:3' &9<=8' 2;734' &'8:3' 8? ' 7;<=:;5=' ?;=' 5;D34' 92' D:;<H3' &'
23.:;5&' &'8:3' &&32=9B3' ;<8' &' ; 53 2A=' 5;2' & <' 8:3' =@CX@.

;89 2' &' ;92' ?:953' 3==9 3=' ?;=' 7;9256' <3= 2=9C53' & <' 8:3' 43&32=9B3' ;<8' 9,'3,' & <' 8:3' 7;928;9292H' &' 8:3' D 7 7@29D;89 2=' C38?332' ;4<94' ;24' ;6 223,' 8' 9=' ?98:' 2D36A=' 3G 34989 2' ;H;92=8' /;532D9;' 8:3<3& <3' 8:;8' ?3' 7@=8' &9<=8' 43;5,' 58: @H:' :3' =8;<834' ;' &3?' 4;6=' 5;83<' 8:;2' @ 28' 8:;8' 7;<=:;5' ?;=' 059>3' :9=' D 553;H@3P' =89 ' 4 792;834' C6' 8:3' 943;' 8:;8' ==3==34' C 8:' ; 53 2' ;24' @<;8 8:;8' 8:3' 92=@<<3D89 2=' ?3<3' @<356' 5 D;5' ;24' 8:;8' 8:39<' =@ <3==9 2' ?;=';' 73<3' 73;=@<3' &' 59D3,' :9=' 2 89 2';DD @28=' & <' :9=' D: 9D3' &' < @83K' 8:3<3';<3' 8? ' < ;4=' &< 7' ;4<94' 8 ' /;532D9;' ;' 5 2H' ;24' &;9<56' 3;=6' 23' ?:9D:' ;==3=' 8:< @H:' 8:3' H;' C38?332' 8:3' 7 @28;92=' &' @<D9;' ;24' 8: =3' &' @32D;' C6' ;2' 53 7 3283' :92D:955;' ;24' 8:3' 5;92' &' 57;2R;' ;24';'=: <83<' 23' &@55' &' 4;2H3< @=' 43&953=' ;24' H <H3=' ?:9D:' D@8=' 8:< @H:' 8:3' :3;<8' &' 8:3' :955=' C6' ;<;2D 2' /;5B3<43' ;24' 3J@32;,' :3' & <7 3<' D< ==3=' 8:3' ?;83<=:34' C38?332' 8:3' B;5536' &' 8:3' ;H@=' ;24' 8: =3' &' 8:3' <9B3<=' &5 ?92H' 928' 8:3' 34983<<;23;2' 3;' ;8' 8:3' 3;=93=8' 928' 8:3' 5;883<;8' 23' &' 8:3' 7 =8' 49&&9D@58' 23=,' @8' 2D36' 8:92>92H' 256' &' 8:3' 2334' 8' 43;5' < 7 856' ?98:' 8:3' /;532D9;2' 92=@<H328=' D: =3' 8:3' =: <83<';24' 7 <3' 49&&9D@58' < @83, 3' 53&8' ;4<94' 2' -@23' LK' ;' ?33>' 5;83<' :3' ?;=' 23;<' @32D;' 92' 8:3' 794=8' &' 8:3' 7 @28;92=,' 8' ;' =: 8' :;4' 638' C332' &99%34' ;8' :97' C@8' d8=' :3' <3==34' 3;=8?;<4' :3' & @24' 8:3' B955;H3=' 7 <3' ;24' 7 <3' 43=3<834' 8955' ;8' 5;=8' :3' :;4' <3;D:34';' <3H9 2' 8:;8' =33 734' 8' :;B3' C3D 73' =@443256' 43 @5;834,' 3' 8@<234' ;' 598853' @8' &' :9=' ?;6' 2' 8:3' 353B328:' 8' DD@ 6' 8:3' D986' &' @32D;' 8:3' D; 98;5' &' 8:9=' ?954' ;24' <@HH34' D @28<6' C@8' <3=@734' :9=' ;4B;2D3' 2' 8:3' 39H:833<&8:' ;&83<' <3D39B92H' &< 7' ;49.94' 3<37 8 <6' <43<=' 8 ' <3==' & <?;<4' 93<3' 5;6' C3& <3' :97' 8? ' 8<3732 4 @=' 43&953=' ?:9D:' 7 @=8,C3' ;==34' 9&' :3' ?;=' 8 ' <3;D:' /;532D9;,' :3' &9<=8' ?;=' 8:3' 433 .=@2>' H <H3' &' 8:3' <9B3<' ;C<935' ?:3<3' 8:3' :9H:?;6' 5@2H3=' 4 (B2' ;' D59&&' D< ==3=' ;' <;B923' ;24' D: 7C=' ;H;92' @ ' ;' =833 ' =92H' C;2>,' :3' =3D 24' 8:9<86' 7953=' &@<8:3<' 2' ?;=' 8:3' ;==' &' 8:3' ;C<9 ;=' 8:3' 928' ?:3<3' 8:3' <;4' 2' <3;D:92H' 8:3

* @32D;'593=' 8?3286.&9B3' 7953=' &&' 8:3' 7;92' ;4<94./;532D9;'<;4'?355'8 8:3'2 <8:' &'98,'

* 2D36A=' 435;6' &';' ?33>';8' @32D;' < B >34' ;B;<6'02 ?';D892H' &<' 8:3' 92B;59434' @<;8P' 8' =@D:' ;2' 3G8328' 8:;8' :3' =328' &<?;<4' 8:3' D;B;5<6.H323<;5' GD357;2=' 2 792;556' 8' 8;>3' D:;<H3' 2D36A=' B;2H@;<4' <3;556' 8' = @<' 8:3' D;@89 @=' 7;<=:;5' 2' 8' ';D89 2,' @8' GD357;2=' ?;=' D; 8@<34' 2' 8:3' ?;6' C6' 3;=;28=' ;24' =328' ;' <9= 23<' 8' /;532D9;,

34H3' &' 8:3' D328<;5' 5;83;@' &' ;92' =@443256' =92>=' 4 ?2' 928' 8:3' 5 ?.5692H' &3<8953' 5;92' &' /;532D9;,

&' 8:3' 243' 43' 3<B355 2' 8:3' H323<;5' ?: 7' 8:3' /;532D9;2' -@28;' :;4' @8' 92' D:;<H3' &' 98=' ;<76' :;4' D 2D328<;834' 2' 8:3=3' 43&953=' 8:3' ###' <' M ###' <3H@5;<' 8< =' ?:' ?3<3' 8' C3' & @24' 92' 8:3' < B92D3' ;24' 92' 8:3' 239H:C @<92H' 49=8<9D8' &' @<D9;' 98' 9=' < C;C53' 8:;8' 2D36' ? @54' 23B3<' :;B3' & <D34' :9=' ?;6' 8:< @H:' 8:3' 7 @28;92=S' & <' 3;D:' &' 8:3' =989 2=' 9&' :354' 92' =@&&9D9328' & <D3' 9=' <;D89D;556' 97 <3H2;C53,' @8' 8:3' ;29;<4=' :;4' & <734' ;' 433 56' < 834' 2 89 2' 8:;8' 8:3' 92B;43<' ? @54' D 73' C6' 8:3' 3;=6' < ;4' B3<' 8:3' 5;92=' C6' ;2' 53 7 3283' ;24' 57;2R;' ;24' 2 8' 8:< @H:' 8:3' 7 @28;92=' &' @32D;,' :3' ?: 53' &' 8:3' 8< =' &' @<D9;' ;24' 8:3' H<3;83<' ;<8' &' 8:8' =3' &' /;532D9;' :;4' C332' 49<3D834' 2' 57;2R;' ?:3<3' 8:3<3' ?;=' ;' H 4' =989 2' & <' =92H' ;2' ;<76' 43=D32492H' &< 7' ;=8953,' 256' ;' =7;55' 438;D: 7328' :;4' C332' =328' 8' ?;8D:' 8:3' 2 <8:3<2' < ;4' ;24' 98=' D 77;X943<' 2' 34<' 4 <2' :;4' =8;89 234' ;8' 8:3' C<94H3' &' 8:3' %;C<935' 2' 7 <3' 8:;2' 23' C;88;59 2' &' ?9==' 73<D32;<93=)' 0 ,' ' &' <;G53 =' <3H9 7 328P' ;24' ##' ;<734' 3;,=;28=' ?98:' & @<' H@2=,' :3' =989 2' ?;=' 8' 3G832=9B3' 8' C3' :354' C6' ##' 7 32K 2D36' & @24' 8:;8' 8:3' <9B3<' ?;=' & <4;C53' 92' =3B3<;5' 5;D3=' ;24' 438;D:34' ;' =7;55' D 5@7 2' 8' D< ==' ;8' 3;D:' ?:953' 8? ' C;88;59 2=' 4;=:34' ;8' 8:3' C<94H3,' 2' = 983' &' 8:3' =833 23==' &' 8:3' <;B923' 8:3' <32D:' H 8' B3<' ;8' 7 <3' 8:;2' 23' 928' ;24' D59 7 C34' 8:3' =983' =5 3' ?:3<3@ 2' 8:3' 3;=;28=' &534' ;24' :;5&' 8:3' ?9==' C;88;59 2' ?;=' =@<< @2434' ;24' D; 8@<34' ?:953' 98' ?;=' 8<692H' 8' D B3<' 8:3' <38<3;8' &' 8:3' H@2=' 4 29' ?:' ?;=' 5692H' = 73' 7953=' 8' 8:3' <3;<' ;8' 3J@32;' ?:32' :3' =:@54' :;B3' C332' <3=328' 92' &@55' & <D3' ;8' 8:3' C<94H3' @H:8' 2 ?' 8' :;B3' &;5532' C;D>' 8' D B3<' /;532D9;' C@8' 92' ;' 7 7328' &' ;29D' :3' &534' ;D< ==' D @28<6' 8' X 92' 8:3' ;<76' ;8' 57;2R;' W-@23' $],

:9=' 49=H<;D3&@5' &59H:8' 53&8' 8:3' /;532D9;2' -@28;' ;57 =8' 43=898@83' &' 8< =' & <' 8:3' 43&32D3' &' 8:3' =8955' =8< 2H3<' 43&953' &' 8:3' C<955;=' ?:9D:' 2D36' :;4' 638' 8' & <D3' C3& <3' :3' D @54' 43=D324' 928' 8:3' 5;92,' :3' -@28;' :@<<934' @' 8' 98' 8?' <3H9 7 328=' &' <3D<@98= 23' &' ?:9D:' 9=' =;94' 8' :;B3' C332' &9<=8' <;D89=34' 92 :3' 7;2@;5' 3G3<D9=3' 8:3' 4;6' C3& <3' 98' ?328' 928' ;D89 2' :3=3' ?98:' I##' 54' = 5493<=' 8:3' ?<3D>=' &' 8:3' D 7C;8' ;8' 8:3' %;C<935' ;24' 8:<33' H@2=' 8<934

* 2D36' 924@D34' ;' H 4' 7;26' &' 8:3=3' 73<D32;<93=' 8' 8;>3' =3<B9D3' ?98:' :97' $ C@8' 8:36' 43=3<834' :97' ?:32' 8:3' 8973' &' 8< @C53' C3H;2,

D ,.+-0+' ' ' ' & ' $%%'

IN % E: - /$M

' 9;B3 <3737C3<34 8:;8 9& 8:36 =@C798834 8:36 ? @54 :;B3 8 <3243<;2 ;DD @28 & < ;5B A= ;C 792;C53 29;==;D<3 &8:3 <32D: <3=94328=, DD <492H56 8:3 -@28;<38@<234 8:3 =89<<92H ;2=?3< 8:;8T8:3 3 53 &/;532D9;<3&3<<34 8 493 43&32492H 98=35&<;8:3< 8:;2 8 32 ;26 = <8 &23H 89;89 2=,A 79G34 7@5898@43 &$# ### 8232 &?: 7 = 73 M### ?3<3 8< = &23 = <8 ;24 ;2 8:3< 7;2234 8:3 ?;55= ;24 C;<<9D;43= ;24 ?;9834 & <8:3 ;==;@58,

&83< <9492H < @24 8:3 3G =34 &< 28 &8:3 D986 2D36 <3V = 5B34 8 ;88;D> 256 8:3 = @8:.3;=83<2 =3D89 2, 3 & <734 8? D 5@72= 3;D: &;C<9H;43 &?:9D: 23 ;==;9534 8:3 H;83 &;2 - =3 23;< 8:3 <9B3< ?:953 ;2 8:3< 7;<D:34 2 8:3 H;83 &U@;<83 &@<8:3< 8 8:3 = @8:, 2=943<92H 8:3 ?3;> <3=9=8;2D3 8:;8 :3 :;4 7386 ;8 8:3 %;C<935 ;24 ;8 8:3 ;== &8:3 ;C<955;= :3 :;4 & <734 ;=;2H@923 3G 3D8;89 2 8:;8 8:3 /;532D9;2= ? @54 : 8 7;>3 ;&@9<7=8;24 3B32 C3:924 ?;55= ;24 C;<<9D;43=, 2 8:9= :3 ?;= ? &@556 43D39B34K 8:3 <32D: :;4 638 8 53;<2 8:;8 8:3 32376 8: @H: :35 53== 92 8:3 32 ?;= D; ;C53 &8:3 7 =8 C=892;83 <3=9=8;2D3 ?:32 2D3 :3 :;4 @8 :97=35&@243< D B3< &C<9D>= ;24 3;<8:, :3 &578 ;==;@58 ?;= C3;832 &&?98: :3;B6 5 == 8: @H: 2D36A= D 2=D<9 8= =: ?34 H<3;8 4;=: <3;D:34 8:3 & 8 &8:3 43&32D3= ;24 8<934 8 83;< 4 ?2 8:3 ;59=;43= ?98: 8:39< :;24=, :3 7;<=:;5 =: @54 :;B3 =332 ;8 2D3 8:;8 :3 :;4 8 5;<H3 ;C@=923== 92 :;24 & <8:3 M### 732 &?: 7 :3 D @54 49= =3, @8 :3 3<=3B3<34 C<92H92H & <?;<4 :9= :354 ;<89553<6 8 C;883<8:3 H;83= ;24 3;<8:? <>= C3& <3 ;=3D 24 ;==;@58 =: @54 C3 7;43, 8 ?;= 8 2 @9) =3 ;= 8:36 ?3<3 = 2 =9532D34 C6 8:3 H@2= & =989 2 ?:9D: 8:3 C3=93H34 :;4 <3 ;<34 & <8:9= B3<6 @< =3, ;83 92 8:3 ;&83<2 2 2D36 <9=>34 ;=3D 24 H323<;5 ;88;D> 37C<;D92H 8:3 H;83 & ;28;' @D9;' ;= ?355 ;= 8:3 8:3< 928= ?:9D: :3 :;4 C3& <3 ;==;9534, @8 8:3 =8 <73<= ?3<3 C3;832 &&?98: 3B32 :3;B93< 5 == 8:;2 2 8:3 &9<=8 ;==;@58 ;24 C 493= &8:3 43&3243<= =59 92H @8 C6 =83<2= ;24 =943.H;83= :;<;==34 8:3 <38<3;892H D 5@72= C6 ;83<<9C53 &5;2>92H &9<3,

53;<56 8:3 H;73 ?;= @ K 2D36 :;45 =8)+;8 53;=8 $## 732 ;=9G8: & :9= ;B;95;C53 92&;28<6 & <D3 3 ?;= 7@D: 8 C5;73

* @8 256 N## ?3<3 <3H@5;<= 8:3 <3=8 ?3<3 23?56 92D < <;834 53B93=,

* 6 H323<;556 ;B3<6 &;9< D;5D@5;8 < & <32D: D;=@;5893= H9B3= 8:3 7;<=:;5= 5 ==3= ;8 $### 732 92 ;55 ?:9D: =337= <;8:3< ;: 9H: &9H@<3, ; 93<09, " P =;6= 8:;8 :3 :;4 M## ? @2434 8 D;<<6 ?:9D: =@ =3= ;8 8;5

& <' <3==92H8 8:3' ;88;D>' ?:32' :9=' &9<=8 7 B37328 &;9534 ' & <' ;=' ; 53 2' 0?9=3' ;&83<' 8:3' 3B328P =;94' 92' :9=' D 7 7328;<6' 2' 8:3' 7;<=:;5A=' 3<;89 2=K T' 2' 23' <324' ;=' ;<' 53' D 5538' @23' B9 3' 43' J@;8<3.B92H8' 7 9553' ;73=,A' &' 8:3' &9<=8' D:;<H3' 494' 2 8' D;<<6' 8:3' ?;55=' ;24' 8:3' H;<<9= 2' =8 4' &9<7 ' 8:3' <32D:' D @54' 256' H38' 92' C6' 8:3' @=3' &' =93H3' ;<89 3<X)' &' ?:9D:' 8:36' 494' 2 8' ==3==' ;' =92H53' 93D3,'

2D36A=' =989 2');=' 2 ?' B3<6' 4;2H3< @=K :3' >23?' 8:;8' 8:3' D @28<6' ?;=' @ ' 92' ;<7=' C3:924' :97 ' ;24' 8:;8' :9=' D 7 7@29D;89 2=' ?98:' ;4<94' ?3<3' D 7 538356' D@8,' 3' ?;=' ;5= ' ;?;<3' 8:;8' 3<B3 2A=' ;<76' &< 7' 57;2R;' 7@=8' C3' 7;<D:92H' 8 ?;<4=' :97 ' @253==' 98' :;4' 8;>32' 8:3' ;583<2;89B3' D @<=3' &' <3==92H' 92' 2' :9=' <3;<' 8 ' DD@ 6' 8:3' 49&&9D@58' ;==3=' C6' ?:9D:' :3' :;4' D 73' 4 ?2' 928 ' 8:3' /;532D9;2' D ;=8. 5;92,' 9=' D 2=D<9 8=' ?3<3' 4<3;4&@556' 49=D @<;H34' C6' 8:39<' @23G 3D834' <3B3<=3K :3' ?;=' :;7 3<34' C6' ;' H<3;8' D 2B 6' &' ? @2434' 732' ?: =3' 8<;2= <8' ? @54' D;@=3' =3<9 @=' 435;6=,' 8:92H' :;4' C332' :3;9A4' &' 8:3' 49B3<=9 2' ?:9D:' %323<;5' :;C<;2' ?98:' 8< =' 438;D:34' &< 7' @:3=73A=' ;<76' 92' ;8;5 29;' :;4' C332' <43<34' 8 ' 3G3D@83' 8 ?;<4=' 8:3' 2 <8:3<2' =943' &' /;532D9;,' =' ;' 7;883<' &' &;D8' 8:;8' H323<;5' :;4' 2 8' 3B32' D< ==34' 8:3' C< ,' 38<3;8' ?;=' 23D3==;<6K' &' 8:3' 8:<33' ==9C53' 5923=' 2' ?:9D:' 98' D @54' C3' 3G3D@834 ' 8:;8;5 2H' 8:3' D ;=8' <;4 ' 92' 8:3' 49<3D89 2' ?:3<3' :;C<;2' ?;=' 8 ' C3' 3G 3D834 ' ?;=' 8: @H:8' &' & <' ;' 7 7328 ' C@8' = 2' ;C;24 234K' 98' ?;=' 8 ' 5 2H ' ;24' 8:3' <3;5' C;=3' &' 8:3' 7;<=:;5A=' D < =' ?;=' 3B9432856' ;4<94 ' ;24' 2 8' ;<D35 2;,' :3' < @83' C6' ;<;2D 2' ;24' 8:3' ;C<955;=' C6' ?:9D:' 8:3' ;<76' :;4' <3;D:34' /;532D9;' ?;=' 832.9C56' 49&&9D@58K' D53;<56' 98' ? @54' C3' 23D3=V =;<6' 8 ' & <D3' ;H;92' 8:3' 43&953=' ?:9D:' :;4' C332' D53;<34' 2' 8:3' ?;6' 4 ?2' 8 ' 8:3' D ;=8,' 24' 98' ?;=' ==9C53' 8:;8' " ### <' ### <3H@5;<' 8< =' 79H:8' 2 ?' C3' DD@ 692H' 8:37,

1 DD <492H56 ' 2D36' <3= 5B34' 8 ' <389<3' C6' 8:3' 8:9<4' < ;4 ' 8:;8' 8:< @H:' 8:3' 5;92=' C6' 57;2R;' ;24' ;2' 537 3283,' &' ;=' ?;=' ==9C53 ' 3<B3 2A=' ?: 53' ;<76' ?;=' 2 ?' C5 D>92H' 98 ' 8:36' 7@=8' C3' & @H:8' ;24' 4<9B32' &&K' ;' C;8853' 92' 8:3' 5;92' ? @54' C3' 53==' 4;2H3< @=' 8:;2' ;' C;8853' ;8' 8:3' ;C<955;=' <' 8:3' C<94H3' &' 8:3' ;C<935,' 3& <3' 4;659H:8' 2' -@23' $" ' 8:3<3& <3 ' 8:3' 7;<=:;5 7 B34' &&A' 2' 8:9=' < ;4,

5 ==' &' ### <' $##,' :93<=K 3=897;83' &' I##9=' ;=' CB9 @=56' ;C=@<4' ;=' 7 =8' &' 8:3' 8:3<' &9H@<3=' H9B32' C6' 8:;8' :9=8 <9;2,' ' =@D:' 5 ==' ? @54' :;B3' =8 34' ;' <32D:' ;<76 3B32' ;2' ;<76' &' D 2=D<9 8=,

;=A‘) ‘ ‘ $ $ $ ‘ E:- ‘ ;?

@D>‘ 2 ?‘D;73‘8 ‘ :9=‘ ;94K 8:3‘92D; ;C53‘ ;29=:‘D 7 7 ;243<‘ :;4‘ 7 ;43‘@ ‘ :9=‘ 7924‘8:;8‘8:3‘ <32D:‘? @54‘<38<3;8‘C6‘8:3‘?;6‘ 8:;8‘8:36‘:;4‘D 73‘;24‘:;4‘=328‘& <?;<4‘%323<;5‘ 5;7;=‘?98:‘;55‘ 8:3‘8< =‘ &‘ @<D9;‘8 ‘=39R3‘8:3‘43&953‘ &‘8:3‘ ;C<955;=,‘ 3‘ :97=35&‘& ?34‘?98:‘8:3‘<3=8‘ &‘8:3‘<3H@5;<=‘C@8‘:;5834‘;8‘ 5D9<;‘C3:924‘8:3‘!@D;<,‘ :@=‘?:953‘ 2D36‘?;=‘7;<D:92H‘8‘ 8:3‘=@8:‘8:3‘7;92‘C 46‘ &‘:9=‘3237 93=‘?;=‘7 B92H‘2 <8:?;<4,‘ 3<B3 2‘<3&@=3DX‘8‘&9H:8‘92‘8:3‘;C=32D3‘ &‘ 5;7;=‘=‘2 8:92H‘ ?;=‘53&8‘92‘8:3‘7;<=:;5A=‘?;6‘=;B3‘C;24=‘ &‘ 3;=;28=‘?:‘ DD@ 934‘ 8:3‘&<4=‘ &‘8:3‘!@D;<‘;24‘8:3‘< ;4‘C38?332‘-;89B;‘;24‘ 57;2R;K 8:3=3‘:3‘3;=956‘C<@=:34‘;?;6‘92‘;‘D @ 53‘ &‘=>9<79=:3=,‘ <‘494‘ ;‘=7;55‘D 5@72‘438;D:34‘92‘ @<=@98‘&< 7‘/;532D9;‘4;<3‘8‘ 734453‘ =3<9 @=56‘?98:‘:9=‘<3;<H@;<4,‘ ‘?98: @8‘3B32‘3GD:;2H92H‘;‘=: 8‘ ?98:‘8:3‘ ;29=:‘&9354.;<76‘?:9D:‘ 3<B3 2‘:;4‘=‘@2?9=356‘ =D;883<34‘;24‘=328‘ &&‘ 2‘;‘&;5=3‘8<;D>‘ 2D36‘?;=‘;C53‘8‘7;>3‘ :9=‘?;6‘C6‘-;89B;‘ 57;2R;‘;24‘ :92D:9 ;‘C;D>‘8?;<4=‘ ;‘ ;2D:;‘W-@56‘$.N],

8‘ ;2‘ 5373283‘:3‘738‘?98:‘<392&<D37328=‘@243<‘%323<;5‘ <3<3‘D 2=9=892H‘&‘8:3‘8:9<4‘49B9=9 2‘&‘@ 28A=‘<9H92;5‘D<=‘ = 73‘ ###‘=8< 2H,‘ :9=‘49B9=9 2‘:;4‘C332‘=328‘8‘=3;<D:‘&<‘:97‘ C6‘ ;B;<6‘?:‘:;4‘C332‘&9534‘?)98:‘&3;<=‘&<‘:9=‘=;&386‘?:32A:3‘ & @24‘8:;8‘8:3‘D 77@29D;89 2=‘?3<3‘D@8‘;24‘8:;8‘ @32D;‘;24‘;55‘ 8:3‘:9 .D @28<6‘:;4‘<9=32‘C3:924‘8:3‘3G 34989 2;<6‘&<D3,‘ &83<‘ B;9256‘=3;<D:92H‘&<‘ 2D36‘2‘8:3‘2 <8:3<2‘< ;4‘92‘8:3‘49<3D89 2‘ &‘ 3J@32;‘ <3<3‘;8‘5;=8‘H 8‘23?=‘8:;8‘:3‘:;4‘8;>32‘8:3‘=@8:3<2‘ 5923‘&‘<38<3;8‘;24‘=@DD3==&@ 6‘X 9234‘:97‘2‘-@56‘M,‘ 8‘ ;2‘ 5373283‘8:3‘7;<=:;5 92832434‘8‘:;58‘;24‘8‘?;98‘&<‘3<B3 2A=‘ ;<<9B;5‘92‘8:3‘: 3‘&‘C3;892H‘:97‘92‘8:3‘ 32,‘ @8‘;‘&3?‘4;6=‘ 5;83<‘:3‘<3D39B34‘23?=‘&<‘7‘ ;4<94‘8‘8:3‘3&&3D8‘8:;8‘;B;<6‘ ?9=:34‘8‘4<;?‘C;D>‘8:3‘ <32D:‘&<D3=‘23;<3<‘8‘8:3‘D; 98;5‘;24‘ 8:;8‘<3<3‘;8‘53;=8‘7@=8‘7 B3‘92‘8‘ D;2;‘<‘ 534 ,‘ @D:‘49=V 53;=34‘;8‘&92492H‘;‘X@29 <‘ &&9D3<‘;D892H‘;=‘8:3‘593@832;28‘ &‘8:3‘ 7 3< < & <‘ ;B;<6‘?;=‘C@8‘;‘593@832;28.H323<;5‘?:953‘:3‘:97=35&‘ ?;=‘;‘7;<=:;5 2D36‘8:<3?‘@ ‘8:3‘?: 53‘=D:373‘ &‘?;9892H‘8‘ &9H:8‘8:3‘/;532D9;2‘;<76‘;24‘ 7;<D:34‘C;D>‘8‘8:3‘977349;83‘ 239H:C @<: 4‘ &‘ ;4<94‘W-@56‘],

:3<3‘D;2‘C3‘2‘4 @C8‘8:;8‘8:3‘7;<=:;5‘ :;4‘3G8<; <492;<6‘5@D>‘ 92‘8:9=‘=: <8‘D;7 ;9H2,‘ &‘:3‘:;4‘C332‘ =34‘C6‘;‘H323<;5‘53==‘ 8977 94‘;24‘92D; ;C53‘8:;2‘8:3‘ 243‘43‘ 3<B3 2‘:3‘79H:8‘:;B3‘ & @24‘;2*;634‘;H;92=8‘:97‘;8‘8:3‘C<94H3‘ &‘8:3‘ ;C<935‘ <‘;8‘8:3

M#MR , M"

;C<955;=';'D 2=943<;C53'C 46' &'<3H@5;<= 39H:8' <'2923'8: @=;24' 732 ?98:';'2@73< @='; <89553<6'92=83;4' &'8:3'92=9H29&9D;28' & <D3='?:9D:':3'N@S8@;556'43&3;834,' H;92'?:953':3'?;='8<6926H'8'=8 <7'/;532D9;' 3<B355 9X' 79H:8':;B3';88;D>34':97'92'8:3'<3;<'?98:'H<3;8' D:;2D3' &'=@DD3==' S <'8:3' ;29;<4' 79H:8':;B3'>3 8':9=' & <D3='@29834';24' =34' 2D36';=':3'<38<3;834'&< 7'C3& <3'/;532D9;,' 2=83;4' &'4 92H'='':3'= 598'@ ':9=';<76'928'438;D:7328='';24'8:3' H<3;83<' ;<8' &'98' ?;=' =328' &&'&;<' &< 7'8:3'D328<;5' 928' &':9=' 3<;89 2='';24' 494' 2 8'&9<3';'=: 8,' <@56'=@D:';'H323<;5'?;=';=' :@D6494 3='<37;<>=' D 2D3<292H'8:3' ;<8;2=' &' 54'T B3<6'D 2V B32932 8'& <':9=';4B3<=;<93=,' '53==' D 2=943<;83'323 76'? @54':;B3':;4';' &;9<' D:;2D3' &' C<92H92H' 2D36A=' D;7 ;9H2'8'8:3'=;73'49=;=8< @=' 324'8:;8' C3&355'8:;8' &' @ 28,

?98:' :97' 3==93<3=' 8 54' &&' 3<53' ;24' ;2 8:3<' =7;55' D 5@72' &' & @<' C;88;59 2=' ;24' 8?' '<3H97328=' &' '@243<' :9=' C<9559;28' D;B;5<6.C<9H;493<' ;=; 3' 23' &'8:3' C3=8' &' ; 53 2A=' 6 @2H3<' H323<;5=,' &83<' =;D>92H' <J@37;4;' 0?:3<3' = 73' 3;=;28=' ;8837 834' ;2' 923&&3D8@;5' <3=9=8;2D3P' ;24' <;2= 792H' 8:3' <9D:' D;8:34<;5' 8 ?2' &' ;532D9;' ;=;553' H 8' 92' 8 @D:' ?98:' 8:3' & <D3=' &') @3=8;' ;8' 8:3' C<94H3' &' ;C3R 2' ?:3<3' 8:3,' 7;92' < ;4' &< 7' @<H ='8' /;55;4 594' D< ==3=' 8:3' <9B3<' 9=@3<H;,' 2' 8:3' 353B328:' &'-@23' 3<53'X 9234':97K' 2' 8:3'8?35&8:'8:39<'@29834'& <D3='" ###'T =8< 2H' &355'@ 2' 8:3' 53B93=' &'8:3' ; 8;92.H323<;5,

:& @H: @8'8:3'8? '63;<=' 4@<92H'?:9D:' :3' :354' :9H:' D 77;24' 92' 8:3' &9354' %<3H <9' 43' 5;' @3=8;' D 2=9=832856' 49= 5;634' ;2' ;<< H;2D3' ;24' ;2' 92D; ;D986' &;<' 3GD33492H' 8:;8' &' ;26' 8:3<' ;29=:' H323<;5,' 2=943<92H' 8:3' =8;83' &' :9=' 37C<6' T;<76' 8' ;=8953K' 98' ?;=' 92=;23' & <' :97'8' 8:92>' &' &&3<92H' C;8853,' 3' :;4' C@8' & @<' D;22 2S' :9=' 256' B383<;2' 8< =' ?3<3' D;B;5<6' 7;9256' D 2=9=892H' &' 8:3' =J@;4< 2=' ?:9D:' :;4' ;DD 7 ;2934' 39*.' 492;24' /-^' ;=' 3=D <8' 2' :9=' @2:; 6'X @<236'8' ;6 223,' 9=' 92&;28<6'?;=' D 7 =34' &' L ###' <' ###' B 5@2833<=' &'8:3' /;55;V 4 594' 49=8<9D8'?: ':;42 8' C332.7 <3'8:;2';'& <829H:8'@243<';<7=' ;24' :;4' =332' 598853' 499 ';24' =8955' 53==' 7@=>38<6' <;D89D3,' 8' ?;=' ;C= 5@8356' ?9D>34'8 '8;>3'8:37'928 ';D89 2,' @8'8:3' 732'92'8:39<' 9H2 <;233'D5;7 @<34' & <' ;' C;8853' ;24' @3=8;' 494' 2 8' <3&@=3' 98' 8 ' 8:37,' 9=' 49= =989 2=' ?3<3' =97 56' ;=8 @2492HS' 92=83;4' &' C;<<9D;492H' <' 43=8< 692H' 8:3' C<94H3' ;24' DD@ 692H' 8:3' &@<8:3<' C;2>' :3'534' :9=' @2:; 6':<43';D< ==' 8:3' <9B3<' ;24' 4<3?'8:37'@ ' 92' ;'=92H53'5923' ?98:'8:3' C<94H3';8'8:39<' C;D>=,

2' -@23' $' ;=;553' D;73' <@=:92H' 4 ?2' @ 2' 8:3' T;<76' &' ;=8953K';24' 4;=:34' 98' 928 ';8 7=' ;8' 8:3' &9<=8'=: D>,' :3' ;29=:' D;B;5<6' &534' 0;=' 8:36' H323<;556' 494' 8:< @H: @8' 8:3' ?;<P' 8:3' 92&;28<6' C< >3' 8:3' C9A94H3' ;24' 8:3' H@2=' ?3<3' D; 8@<34,' 73' :@24<34=' &' 8:3' @2& <8@2;83' <3D<@98=' ?3<3' =;C<34' 8:3<=' ?3<3' 4< ?234'92' 8:3' <9B3<' @3=8;' &534' ?3=8?;<4=' ?98:' 8:3' =@<B9B <=' 8' 3492;' 43' 9' 3D' ;C;24 292H' 8' 98=' &;83' /;55;4 594' ?:9D:' ;=;553' DD@ 934' ?98: @8' =989 2' 2' 8:3' =;73' 3B3292H,' :3' D 7C;8' C6' ?:9D:'8:9=' 97 <8;28' D986' ?;=' ? 2' :;4' D =8' 8:3' <32D:' 256' 8?35B3' >95534';24' 8:9<86' ? @2434,

:9=' =8< >3' :;4' D 7 538356' D53;<34' 3==93<3=K' <9H:8' &5;2>$' 8:3<3' D @54' C3' 2' 7 <3' 4;2H3<' &< 7' 8:3' 2 <8:.?3=8' 8955' 8:3' ;<76' &' %;59D9;' =: @54' 8:92>' < 3<' 8' 43=D324' &< 7' 98=' 7 @28;92=' 8

LI‘ ‘ % ‘ ‘ % ‘ E: - /‘ M

D 283=8‘ ?98:‘8:3‘ <32D:‘8:3‘4 7929 2‘ &‘8:3‘ 5;92=‘ &‘ 3 2‘ ;24‘ 54‘ ;=8953,‘ :3‘ 7;<=:;5‘D @54‘2 ?‘8@<2‘:9=‘;883289 2‘8 ‘ 8:3<‘ &< 28=‘ &‘:9=‘3G832=9B3‘= :3<3‘ &‘D 7 7;24,‘ &83<‘8:3‘ &9H:8‘ &‘ ;C3R 2‘ 3<53A=‘49B9=9 2‘?;=‘=328‘2 <8:?;<4‘8 ‘D 2J@3<‘8:3‘<@HH34‘D ;=8.5;24‘ &‘8:3‘ < B92D3‘ &‘ ;28;243<,‘ :3<3‘ ?3<3‘ &<9H:8&@5‘ 43&953=‘C38?332‘ 362 =;‘ ;24‘8:3‘=: <3‘ &‘8:3‘ ;6‘ &‘ 9=D;6K‘8:3‘ 3;=;28=‘ :;4‘C5 D>34‘8:3‘< ;4‘ ;24‘D B3<34‘8:3‘ :955=943=‘ ?98:‘ * ‘ @8‘8:3‘43&32D3‘?;=‘&33C53 ;=‘7 9H:8‘C3‘3G 3D834‘&< 7‘ 8:3‘&;D8‘8:;8‘8:3‘49=8<9D8‘D @54‘ 256‘ @8‘928 ‘8:3‘&9354‘ 23‘C;88;59 2‘ &‘7 9:89;‘‘;24‘;‘D< ?4‘ &‘<3D328‘53B93=‘?: ‘:;4‘C332‘;C @8‘8:<33‘ ?33>=‘@243<‘;<7=,‘ 2‘-@23‘$I‘ 3<53‘&929=:34‘D53;<92H‘8:3‘43&953=‘ ;24‘3283<34‘ ;28;243<‘?: =3‘C9=: ‘;24‘-@28;‘&534‘?98:‘8:3‘ ?<3D>‘ &‘8:39<‘;<734‘& <D3‘928‘8:3‘ =8@<9;=,

3;2?:953‘8:3‘8< =‘@243<‘3==93<3=‘:;4‘C332‘3J@;556‘;D89B3‘ C@8‘?98:‘B3<6‘49&&3<328‘<3=@58=‘2‘8:3‘ 94453‘ C<‘;24‘92‘8:3‘49<3DV 89 2‘ &‘ <;H 2,‘ 8‘?;=‘>2 ?2‘;8‘ @<H =‘;24‘;8‘ ;6 223‘8:;8‘ ;<;H ==;‘:;4‘<9=32‘59>3‘8:3‘<3=8‘ &‘8:3‘ ;29=:‘D9893=,‘ @8‘98‘?;=‘ ;5=‘>2 ?2‘8:;8‘8:3<3‘?;=‘:;<456‘;‘7;2‘ &‘<3H@5;<‘8< =‘92‘8:3‘ ?: 53‘>92H4 7‘ &‘ <;H 2‘K :3<3‘;=‘92‘ 54‘ ;=8953‘ <‘92‘ ;28;243<‘ 8:3‘92B;43<=‘? @54‘:;B3‘8‘43;5‘ 256‘?98:‘<;?‘53B93=‘?: ‘? @54‘ < C;C56‘49= 3<=3‘ ;&83<‘8:39<‘&9<=8‘43&3;8,‘ ;<;H ==;‘98=35&‘8:3‘ D328<;5‘& D@=‘ &‘8:3‘<9=92H‘?;=‘2 ‘7 437‘& <8<3==‘C@8‘;‘8 ?2‘ &‘ N# ###‘= @5=‘=@<< @2434‘C6‘;‘7349;3B;5?;55‘7 <3‘&98834‘8 ‘;==9=8‘ 92‘8:3‘53B6‘ &‘ ‘4@893=‘8:;2‘92‘;‘43&32D3‘;H;92=8‘;‘<3H@5;<‘ ;<76,‘ DD <492H56‘8:3‘D 5@7 2‘@243<‘ 3&3CB<3‘ 3=2 @3883=‘?:9D:‘ ?;=‘49<3D834‘8 ‘=8;<8‘&< 7‘ ;7 35@2;‘;H;92=8‘8:3‘ <;H 23=3‘ 92=@<H328=‘?;=‘ 23‘ &‘B3<6‘7 43<;83‘=9R3 I ##‘92&;28<6‘ ###‘ :<=3‘;24‘;‘=92H53‘C;883<6‘ &‘&9354‘;<89553<6‘ @8‘98‘?;=‘8‘C3‘ X 9234‘;‘&3?‘4;6=‘5;83<‘C6‘;2 8:3<‘C<9H;43`‘;24‘C;883<6‘?:9D:‘ ? @54‘C<92H‘98=‘8 8;5&<D3‘@‘8‘=7 38:92H‘7 <3‘8:;2‘N ###‘732,

:3‘<3=@<D3=‘ &‘8:3‘>92H4 7‘ &‘ <;H 2‘?3<3‘5;<H3‘C@8‘8:3‘ ;8<9 8=‘?3<3‘?:32‘8:3‘?;‘<‘C< >3‘@8‘92‘;‘D 24989 2‘7 =8‘@2&;B 9@K.‘ ;C53‘&‘<=8<32@ @=‘;D89 2,‘ :3‘< B92D3‘?;=‘ 23‘ &‘8:=3‘?:9D:‘:;4‘ C332‘432@434‘ &‘98=‘@=@;5H;<<9=2K‘8:3<3‘ 256‘<37;9234‘ ;<8‘ &‘ T‘2‘< B92D9;5‘ &‘ ;<34 A‘N 5‘C;6 238=,

‘ :36‘?3<3‘;5C;88;59 2‘3;D:‘ &‘8:3‘ N8:‘L 8:‘;24‘ #8:‘ &‘8:3‘5923‘;55‘ 54‘ 8< =‘;24‘8:3‘$24‘T‘@ 537328;<6‘ 3H97328‘ &‘8:3‘53H9 2=‘ &‘ 3=3<B3A‘8?‘ C;88;59 2=‘=8< 2H‘?98:‘;‘<3H97328‘ &‘ 59=:‘5;2D3<=‘;24‘8:3‘ □8:‘ ‘ ‘

+‘ 93‘ =8‘<3H97328‘ &‘8:3‘/9=8@5;‘08?‘C;88=,P‘;24‘8:3‘ □8:‘ ‘ ‘ # ‘

;' D;B;5<6' <3H97328' 8:3' T 092HA=' <;H 2=A' ?: =3' =J@;4< 2=' :;4' C332' =' 43 53834' 8:;8' 98' :;4' 256' I##' 732' ;24' 292386' : <=3=' ?98:' ;' ?3;>' C;88;59 2' &' / 5@2833<=' &' <;H 2 = 73'L #' 732 ;24'$##' H@223<=';24'=; 3<=,' 2';44989 2'8:3<3':;4'=8<;HH534'928' ;<;H ==;' ;C @8'4AA' 732'&< 7'B;<9 @=' ;29=:'D < =';8' ;4<94' @<H ='';24' 35=3?:3<3' ?: ' :;4' 43=3<834' 8:39<' D 5 @<=' ?:32' 8:3' 23?=' &' 8:3' 92=@<<3D89 2' <3;D:34' 8:37,' 599=' ?;=';' =7;55' ' 2' ?:9D:'8 ' D<3;83';'?: 53';<76'C@8'8:3'&3;8'?;=';DD 7 59=:34'C6'8:3'323<H389D' 6 @2H' 7;2'?: ' @8':97=35&';8'8:3':3;4' &'8:3'<9=92H'92'8:3.'794453' B;5536' &'8:3' C< ,' - =3 :' ;5;& G'8:3'=3D 24'= 2' &';'2 C53' &;7956' &' <;H 2':;4'C332' 23' &'8:3'=@983'?:9D:';DD 7 ;2934' 3<492;24'/ '8 ' ;6 223';24'?;=';2'9249H2;28'= 3D8;8 <' &'8:3' ;C 792;C53'8<3;D:3<6'?:9D:'8:3<3'8 >' 5;D3,' :32'8:3'8<;H346' ?;=' B3<':3'?;=&<8@2;83'32 @H:'8'3=D; 3'8 ' ;92K':3'<389<34'8 A' :9=' 2;89B3'49=8<9D8'8 >';' < 792328' ;<8'92'< @=92H'8:3' <;H 23=3' ;24'?;=' D: =32' C6'8:37' ;=' ; 8;92.H323<;5'?:32'8:3'?3;>' <'92V D; ;C53'%@955357'?;=' 43 =34,' 3'?;=' 256'8?3286.39H:8'63;<=' &' ;H3';24':;4'2' 79598;<6'3G 3<932D3'& <':3':;4' 256'=3<B34'92'8:3' 3;D3&@5'<;2>=' &'8:3'>92HA=' C 46H@;<4' 3':;4'C332';' D @<893<' <;8:3<'8:;2';'=5493<'638';8'8:3'D<989D;5' 7 7328' &':9=' 59&3'98'D;2.

* ;5;& G':;=' C332'=' &832';C@=34'8:;8' '8;>3'8:3' <8@2986' &'J@ 892H' 8:3'43=D<9 89 2' &':97'H9B32'C6' 9<' :;<53=' /;@H:;2' 23' &'8:3'8:<33' <'& @<' 2H59=:732'?:' '=;?':97';8' ;<;H ==;'92'8:3'4;6' &':9=' ?3<';24'8:3' 256' ' 23'?:' ';:;=53&8':9=97 <3==9 2=' 2'<3D <4,' 3' 59B34'?98:' ;5;& G'& <'= 73' &9B3'?33>=' 92' D8 C3<. B37C3<' M#M,' 2' :9=' 49=892H@9=:34' 2 C537;2' 9=' ;C @8'8:9<86.& @<63;<=' &';H3'W;2' B3<=8;8373283'C6'=9G'63;<=]' :9=' 3<=' 2'9=' &'7944592H'=8;8@<3':9=' 363=' 59B356';24'3G <3==9B3';24':9=?: 53'43 <8732883:;8' &';' 3<&3D856'?355.C<34'7;2,' 2' <9B;83'59&3'='&;<';=' 76'4;956'9283<V D @<=3'H;B3'73';2' <8@2986' &'X@4H92H':9=' 7;223<=' ?3<3'>924'@2;&&3D834' ;24'92H<;89;892H,' < 7'8:3' H<3;8' <3;4923==' ?98:' ?:9D:' :3' 49=' ;8D:34' C@=923==';24'&< 7'8:3'53883<=';24' @C59D' ; 3<=?:9D:'?3<3'?<98832'C6':97' ?98:' ; ;<328'H<3;8'3;=3'92'76' <3=32D3' '?;=534'8'& <7';'B3<6'&;B @<;C53' 929 2' &':9=8;5328=,' :3<3'?;=';' J@9D>23==92':9=7;223<' &'=39R92H' CX3D8='2'97 ;8932D3'@2895836'?3<3';DD 7 59=:34,' 3'?;=& 24' &'8;5>92H' &'8:3'3B328=' &'8:3'=93H3';24';2G9 @=8'928< 4@D3'8'@=732' &'3B3<6'D5;==' ?:' ' :;4'49=892H@9=:34'8:37=35B3=,' :3<3'?;=';'B9B;D986'92':9=7;223<;24' D 2B3<=;89 2';2';D89B986'92':9=3G3<89 2=';=;2' &99D3<'8:;8'9=<;<356'738'92';' ;29;<4,' 8'?;=;5?;6=';'7 =8'D:33<92H';24'9283<3=892H'8:92H'8'<943'?98:' :97'8:<@H:'8:3'=8<338=' &';<;H ==;,' :3'X 6';24'3G@58;89 2' &'8:3' 3 53' ;=':3' ;==34'3B9432856'=<@2H'&< 7'8:3':3;<8,' ':;B3';DJ@98834':97=35&'8' 8:39<=;89=&;D89 2'?;=2' 73;2'<3?;<4';24'&<7=';'=@&&9D9328';2=?3<'8' ';55'8:3' @2? <8:6';8837 8=0?:9D:'' :;B3'C332'49=H@=834'8'?9823==P'8'43 <3D9;83':9=' D:;<;D83<A;5 6 ' & $&< 7';2'@2 @C59=:34'X @<2;5' &' M#MP,

2 8 C3 432934 8 : ; 8 : 3 49= 5 ; 634 ; D @ < ; H3 ; 24 323<H6 ? : 9D : XG9=89&934 8 : 3 : 9H : 929 2= ? : 9D : 8 : 3 < ; H 23=3 3283<8 ; 9234 &: 9 7 , 3 >3 8 ; < ; H ==; D53 ; 2 &< 7 8 : 3 5 ; H@3 &5989D ; 5 ; , == ; ==92 ; 89 2 ? : 9D : ? ; = <9&3 92 3B3<6 8 : 3< D <23< &; 92 , 3 ?9=356 H 8 : 9= ; 928 7 328 ; = ; 8 ; 92.H323 < ; 5 D 2&9< 7 34 C6 8 : 3 <83= & < ; H 2 ? : 9D : : 3 =@ 7 7 234 8 7 338 92 98= ; 2D9328 & < 7 , 3 & @24 @8 8 : 3 7 =8 D ; ; C53 53 ; 43<= &8 : 3 @5 ; D3 ; 24 ; 5?; 6= ; =>34 8 : 39< ; 4B9D3 C3& <3 8 ; >92H ; 26 9 7 <8 ; 28 =83 , @8) : 9= 7 ; 92 B9<8@3 ? ; = : 9= @289<92H ; D89B986K D 2=943<92H 8 : 3 < D<; V =892 ; 89 2 ; 24 ? ; 28 &<H ; 29R92H ?3< 49= 5 ; 634 C6 7 =8 &8 : 3 ; 29= : H323 < ; 5= : 9= 8 ; 5328 & < < ; 94 ? <> = 337 = <3 7 ; <>V ; C53 , 3 ? ; = 256 5 ; D34 92 ?3< 2 ; 6 $N ; 24 C6 -@23 M : 3 ? ; = ; 5<3 ; 46 32H ; H34 ?98 : 8 : 3 <32D : , 2 8 : 9= = : <8 8973 : 3 : ; 4 <; 9=34 ; 24 <H ; 29R34 =3B32 <3H97328= &23? 53B93=. L## 732 92 ; 55 , : 36 ?3<3 =89&&3234 ?98 : 8 : 3 43=3<83<= &< 7 ; 4<94 ; 24 D 7 7 ; 2434 C6 =@D : <389<34 ; 24 : ; 5&. ; 6 &&9D3<= ; = D @54 C3 H 8 8 H38 : 3<, : 3<3 ?3<3 = 73 =D <3= &D ; 22 2 92 8 : 3 ; <=32 ; 5 &; < ; H ==; C@8 : ; <456 ; 26 H@223<= ; <94 ; B3<6 =7 ; 55 =8 <3 &; 7 7 @2989 2, ; 5 ; & G =8 ; <834 ; ?43< &; D8 <6 ; 24 ; 7 ; 2@&; D8 <6 &= 7 ; 55 ; <7 = 8@2<34 8 : 3 ? <> 732 &8 : 3 ; 2 ; 5 &< ; H 2 928 ; D < = &= ; 3<= ; 24 7 ; 43 ; H323 < ; 5 53B6 &: <=3= 8 <37 @28 : 9= =92H53 <3H97328 &49) ; H 2= ; 24 8 < B943 : 9= ; <89553<6 ?98 : 4<; @H : 8 ; 297 ; 5= , : 9= ? ; = C@8 : 3 D 7 732D37328 &; 5 ; & GA= ; D89B986K 3<3 ; <; H ==; ? ; = = ; B34 : 3 : ; 4 <; 9=34 8 : 3 ? : 53 >92H4 7 ; 24 H 8 7 <3 8 : ; 2 I# ###7 732 @243< ; <7 = ,

5<3 ; 46 C6 8 : 3 39H : 8 : &-@23 : 3 : ; 4 : @<<934 @8 ; = 7 ; 55 & <D3 8 7 7338 3&3CB<3 3=2 @3883= ; 8 @435 ; 8 : 3 &< 2893< 8 ?2 2 8 : 3 C< ? : 9D : 92 8 : 3 94453 H3= : ; 4 C332 >2 ?2 ; = 8 : 3 >36 &<; H 2, : 9= & <D3 ? : 9D : D 2=9=834 &$ ### &: 9= 23?53B93= ? ; = 5 ; D34 @243< 8 : 3 D 7 7 ; 24 &: 9= ?2 3543< C< 8 : 3< 8 : 3 ; <J@9= &; R ; 2 ? : ; 4 3=D ; 34 &< 7 ; 4<94 @243< 8 : 3 <383G8 8 : ; 8 : 3 ? @54 C<92H <3==@<3 8 C3 ; <@ 2 8 : 3 ; 8 ; 92.H323 < ; 5 ; 24 924@D3 : 97 8 =@C 798 8 @<; 8, : 3 7 ; <J@9= 8 : @H : X 9234 C6

* ; 93< 9= ; 5?; 6= : ; <4 2 ; 29= : &&9D3<= ; 24 ; 47929=8<; 8 <= C@8 8 : 92> 8 : ; 8 &8 : 3 ? : 53 D5 ; == ; 5 ; & G <3D39B3= 8 : 3 7 =8 @243=3<B34 D 28@7356 &< 7 : 9= 32, 3 : 54= : 97 8 ; B3 C332 ; 73<3 @ 38 ? : =3 =8<92H= ?3<3 @5534 C6 C=D@<3 ; <; H ==; 2 437 ; H H@3= 59>3 8 : 3 D353C<; 834 9 - <H3, 3 3B32 4 @C8= : 9= 3<= 2 ; 5 D @<; H3, 8 : ; 2983 92 8 ; >92H 8 : 3 ; 8 ; 92.H323 < ; 5 J@983 =3<9 @=56 ; 24 8 : 92> 8 : 36 ; <3 <9H : 8 9= C3=8 83=897 29 ; 5 9= 8 : 3 ; <= : ; 24 B9249D89B3 8<3 ; 87328 8 : ; 8 : 3 <3D39B34 ; 8 ; 53 2A= ; 24=,

LN' % ' ,, ' % ' E: - /'

: @=3=' ?3<3' 7 =856' = 594' ;24' 5 &86' =8<@D8@9A3=' &' C<9D>' ;24' =8 23' ?98:' 8:3' :3;B6' C;<<34' /924 ? ' ;24' 4 <=' @=@;5' 92' ;92,' :3' =8<32H8:' =@D:' ;=' 98' ?;=' &' ;<;H ==;' D 2=9=834' 2 8' 92' 98=' @83<' =:355' C@8' 92' 8:3' D5 =356' ;D>34' : @=3=' D 2B328=' ;24' D:@<D:6' 3;D:' &' ?:9D:' 7 9H:8' =3<B3' ;8' 2334' ;=' ;' =7;55' & <8<3==,' ;26' &' 8:37' ?3<3' = 594' 32 @H:' 8 ' <3=9=8' ;26' & <7' &' ;88;D>' =;B3' 8:;8' &' C392H' C;883<34' C6' ;<89553<6,' :32' C;<<9D;43=' :;4' C332' 8:< ?2' ;D< ==' 8:3' 5;23=' &< 7' =943' 8' =943' 3;D:' =J@;<3' &' C@95492H=' ? @54' 2334' 8' C3' ;==;@5834' ;24' D; 8@<34' 93D373;5,' @8' 2 23' &' 8:3' <32D:' &&9D3<=' ?:' ' ;<<9B34' 92' &< 28' &' ;<;H ==;' 2' -@23' ' M#M' :;4' ;26' D 2D3 89 2' 8:;8' 8:3' < C537' ;C @8' 8' C3' <3=32834' 8' 8:37' ?;=' 8:;8' &' =8<338.&9H:892H' D;<<934' 2' &< 7' :@=3' 8' :@=3,' :3<3' :;4' C332' 7;26' =93H3=' =92D3' 8:3' ?;<' &' 8:3' <32D:' 3B 5@89 2' C3H;2' C@8' 2 23' D;<<934' 2' 92' 8:9=' 7;223<,' 2' 8;56' <' %3<7;26' 2' 23' :;4' 3B3<:3;<4' &' ;' D986' ?:9D:)' 8<934' & <' ?;28' &' C;=89 2=' ;24' D@<8;92=' 8' 43&324' 98=35&' C6' C;<<9D;43=K =@D:' 5;D3=' ;5?;6=' =;B34' 8:37 =35B3=' C6' ;2' CB9 @=' ;24' C5;7353==' =@<<3243<,

@8' 9&' ;' =93H3' ?;=' D 792H' 8:3<3' ?;=' 23' =989 2' X@=8' @8=943' 8:3' 8 ?2' ?:9D:' ?;=' D53;<56' 43=89234' 8 ' 5;6' ;' D:93&' ;<8' 92' 98,' -@=8' ;D< ==' 8:3' @3<C;' 5;6' ;' C< ;4' &5;8.8 34' :955' 8:3' 283' <<3< ' ?:9D:' < =3' 8' 8:3' :39H:8' &' M#' &338' ;24' B3<5 >34' ;55' 8:3' = @8:' =943' &' 8:3' 5;D3,' 8' ?;=' =@D:' ;' = 532494' B;28;H3.H< @24' & <' =93H3.C;883<93=' 8:;8' 8:3' 43&3243<=' ?3<3' C @24' 8' : 54' 98' 53=8' 98' =: @54' &;55' 928' 8:3' ?3<' &' 8:3' <32D:,' 8' =: @54' :;B3' C332' D< ?234' C6' ;' =8< 2H' 438;D:34' & <8' <' 3B32' C6' ;2' 328<32D:34' D;7 ,' @8)' ;5;& G' 92' 8:3' =: <8' 8973' ;8' :9=' 49= =;5' :;4' 256' C332' ;C53' 8' 8:< ?' @ ' ;' D @ 53' &' 32' C;883<93=' @ 2' 98' ;24' 8' 5 : 53' 8:3' 3G832=9B3' 7;H;R923=' ;24' ? <>=: =' &' 8:3' ;2;5' &' <;H 2' ?:9D:' ?3<3' =D;883<34' B3<' 8:3' =@7 798' &' 8:3' :955' ?:953' 8:3' D;2;5' 98=35&' &5 ?34' ;=' ;' = <8' &' @83<' 43&32D3' ;< @24' 98=' &@<8:3<' & 8,

;<;H ==;' :;4' 8?' 8:3<' @8569 2H' 43&32D3=K 8:3' 23' ?;=' 8:3' 5X;&&3<9;' ' ;2' 54' =J@;<3' D;=853' ?98:' & @<' 8 ?3<=' ;8' 98=' D <23<=' ?:9D:' :;4' C332' 8:3' ;C 43' &' <9=:' 379<=' ;24' &' <;H 23=3)' >92H=' C@8' 2 ?' =3<B34' ;=' 8:3' <9= 2' &' 8:3' 59J@9=989 2,' 8' 5;6' ;' D @ 53' &' :@24<34' 6;<4=' @8=943' 8:3' ?3=83<2' H;83' 0 @3<8' 435' <8955 P' &' 8:3' D986,' 8' ?;=' ;' = 594' C<9D>' =8<@D8@<3' C@8' J@983' @2=@9834' 8' <3=9=8' ;' =3<9 @=' ;<89553<6' ;88;D>,' :3' =3D 24' @8? <>' B;=8:3' =@C@<C' &' ;2' ;R;<' C36 24' 8:3' C< K 98' ?;=' D 223D834' ?98:' ;<;H ==;' C6' ;' 23?' ;24' :;24= 73' C<94H3' >2 ?2' ;=' 8:3

MUMJ / % L

T @3283 43 934<; A <T 8 23 <94H3,A ;22 2 ?3<3 7 @2834 ;8 98= = @8:3<2 324 = ; ;= 8 F?33 98= ?: 53.532H8:,

2 -@23 3&3CB9A3. 3=2 @3883*; 3;<34 C3& <3 8:3 D986 4<9B92H C3& <3 :97 = 73 ;29=: @8 =8= ?:9D: :3 :;4 738 @ 2 8:3 ?;6, 3 <3= 5B34 ;8 2D3 8 D;<<6 8:3 5;D3 C6 =8 <7 ;8;=> ?:9D: D 2=943<92H8:3 ?3;>23== &98= ?;55= 494 2 8 =337 97 ==9C53 ;24\;55 8:3 7 <3 = C3D;@=3 8:3 H;83= =8 4 32 3;D: 43&32434 256 C6 ;2 3;<8:? <> D 28;9292H 8? <8:<33 H@2=, :3 <32D: H323<;5 23H53D892H 8:3 283 <<3< ;24 98= D 7 7;2492H =5 3= ;88;D>34 256 8:3 ?3=83<2 &< 28 C38?332 8:3 H;83 & <8955 23;< 8:3 C< ;24 8:3 H;83 & ;28; 2H<;D9; D5 =3 8 8:3 C;2>= &8:3 @3<C;, 9= <32D: C<9H;43 ;==;9534 8:3 2 <8:3<2 ;24 :9= 59=: <3H97328 8:3 = @8:3<2 : ;5& &8:9= 5 2H 5923 &?;55= ;24 C@95492H=, 9= 8? &9354.C;883<93= ?3<3 <@2 @ 928 8:3 &9H:892H 5923 8 C;883< 8:3 3;<8:? <>= ;24 8 <3 56 8 8:3 ;29=: H@2=, :3 256 <3=3<B3 ?:9D: :3 >3 8 92 :;24 D 2=9=834 &:9= C<9H;43 &D;B;5<6,

:3 <3=9=8;2D3 &&3<34 8 3&3CB<3 ?);= &8:3 7 =8 9<<3H@5;< = <8K ;5;& G :97 =35& ?;= 2 8 <3=328 ;24 :9= =3D 24.92.D 7 7;24 @=8;7;283 =337 = 8 :;B3 4 23 598853 92 8:3 ?;6 &9==@92H <43<=, :3 N ### :;5&.8<;9234 53B93= ?:9D: :;4 & @H:8 ;8 5;H 2 :;4 2 8 <3D B3<34 8:39< <H;29R;89 2 ;24 ?3<3 : 353==56 79G34 92 8:3 5923 &43&32D3 ?98: L ### <N ### ;<734 D989R32= &55 ;H3= ;24 D5;==3= ?: :;4 H 23 8 8:3 ?;55= 3;D: ;<9=: @243< 8:3 D:;<H3 &8? <8:<33 5 D;5 53;43<= ?: ;94 598853 C34932D3 8 8:3 D 7V 7;24= &8:3 <3H@5;< &&9D3<=,

:3 ;8;92.%323<;5:97 =35&:;4 =8;<834 @8 8:;8 7 <292H ;8 8:3 :3;4 & # 4<;H 2= ;24 $## 92&;28<6 ;55 <3H@5;<= C6 8:3 < ;4 C36 24 8:3 C< ,3 :;4 8 54 :9= =@C <492;83= 8:;8 :3 ?;= 92832492H 8 <;9=3 92 3< <;H 2 ;& <D3 ?98: ?:9D: :3 ? @54 &;55 2 3&3CB<3A= 5923 &D 7 7@29D;89 2= ;24 = D 7 35 :97 8 ;C;24 2 :9= ;88;D> 2 8:3 D986, @8 8:3<3 9= 2 4 @C8 8:;8:;4 <3;556 D 2D39B34 H<;B3 4 @C8= ;= 8 8:3 ==9C95986 & ;<;H ==; '43&32492H 98=35& ;24 92832434 8 ;B 94 C392H D; 8@<34 ?98:92 98= ?;55=, 3 ?9=:34 8 :;B3 8:3 ?3< &D 2892@92H 8:3 =8<@HH53 @8=943 92 D;=3 8:3 <32D:= :@54 3238<;83 928 8:3 D986, 2 8:3 7 <292H &83< 8:3 &9H:8 ;8 5;H 2 C<@9=34 ;24 ? @2434 :3 ?;= 955 ;3==9 79 9=89D &<;73 & 7924 ;= :9= <3= 5B3 =: ?=, @8 8:3<3 9= 2 DD;=9 2 8 C<;24 :97 ;= 4 3= ;93<?98: 8979 94986K :9= <3B9 @= ;24 :9= =@C=3J@328 D 24@D8 <3D5@43 =@D: ;D:;<H3, 8 ; ;= 73<356 ;2 3<< <&X@4H3 7328K 8:3 ;8;92.%323<;5=: @54 :;B3

LM‘ %< ‘ ‘ % ‘ E: - /’

=8;634‘ C3:924‘ 8 ‘ 43&324‘ :9=‘ D; 98;5‘ ;24‘ :;B3‘ =328‘ :9=‘ C< 8:3<‘ ;R;2‘ <‘ = 73‘ 8:3<‘ &&9D3<‘ ?: 7‘ :3‘ D @54‘ 8<@=8‘8 ‘ <;9=3‘ 8:3‘ D @28<6.=943‘ 92‘ 8:3‘ <3;<‘ &‘8:3‘ <32D: ,‘ 9=‘ <389<37328‘ 79H:8‘ ?355‘ :;B3‘49=D @<;H34‘8:3‘ ;<;H ==;2=‘;24‘534‘8 ‘43 5 <;C53‘<3=@58=‘5‘ C@8‘ ;=‘;‘7;883<‘ &‘&;D8‘ 3&3CB<3A=‘ ;88;D>‘C3H;2‘ = ‘ = 2‘ ;&83<‘ :3‘ :;4‘<94432‘ @8‘ B3<‘8:3‘C<94H3‘8:;8‘8:3‘23?=‘ &‘:9=‘43 ;<8@<3‘:;4‘ : 8‘638‘H 8‘;C< ;4‘;24‘8:3‘ @5;D3‘?3<3‘=8955‘@243<‘8:3‘97 <3==9 2‘ 8:;8‘ :3‘?;=‘ ;7 2H‘8:37,‘ 8‘?;=‘2 8‘8955‘8:3‘&9H:892H‘?;=‘ B3<‘ 8:;8‘ :3‘ ?;=A79==34,

3&3CB<3. 3=2 @3883=‘-C3& <3‘ ;9.;H ==;‘?;=‘92‘3G;D856‘8:3‘=;73‘ =989 2‘ ;=‘ 2D36‘C3& <3‘ /;532D9;‘;24‘;D834‘92‘8:3‘=;73‘?;6‘ @=:92H‘& <?;<4‘;‘<;8:3<‘<3D>53==‘;88;D>‘ 2‘8:3‘D986‘92‘&@55‘D 2V &9432D3‘ 8:;8‘8:3‘ ;29;<4=‘? @54‘2 8‘=8;24‘C3& <3‘;2‘;==;@58‘ <3==34‘: 73,‘ 3‘::;4‘7 <3 B3<‘8:3‘;4B;28;H3=‘ &‘C392H‘;C53‘ 8‘;88;D>‘;‘?943<‘&< 28‘ &‘:;B92H‘2‘498D:3=‘;24‘92@24;89 2=‘ 8‘D<;7 ‘:9=‘ 3<;89 2=‘;24‘ &‘43;592H‘?98:‘?;55=‘3B32‘?3;>3<‘ 8:;2‘8: =3‘ &‘/;532D9;‘;24‘43&32434‘C6‘;<89553<6‘ &‘?:9D:‘B3<6‘&3?‘ ?3<3‘ 93D3=‘ &‘:3;B6‘D;59C<3,

:3‘ &9<=8‘;88;D>‘?;=‘4359B3<34‘92‘8:3‘ 7 =8‘4;=:92H‘2 8‘8 ‘=;6‘ & 5:;<46‘=8653,‘ 8‘8:3‘H;83‘ &‘ ;28;‘ 2H<;D9;‘;‘=J@;4< 2‘ &‘ 59=:‘5;2D3<=‘?:‘534‘8:3‘B;2‘D:;<H34‘928‘;24‘ B3<‘8:3‘=7;55 C;883<6‘?:9D:‘D B3<34‘8:3‘92H<3==‘928‘8:3‘D986,‘ :39<‘?954‘<@=:‘ D;@<934‘8:37‘<9H:8‘928‘8:3‘ 5;D3‘92‘=983‘ &‘;‘4< 92H‘&9<3‘ &‘ 7@=>38<6‘49<3D834‘@ 2‘8:37‘&< 7‘3B3<6‘:@=3‘8:;8‘8:36‘ ;==34,‘ @<292H‘928‘;‘C< ;4‘5;23‘8‘8:3‘53&8‘8:3=3‘:3;4=8< 2H‘: <=37 32‘ < 43‘& <?;<4‘5 =92H‘732‘;8‘3B3<6‘=83 ‘8955‘8:36‘?3<3‘C< @H:8‘8 ‘;‘=8;24‘92‘8:3‘ 5;R;‘435‘ <8955A ‘?:3<3‘8:3‘7;X <986‘?3<3‘=: 8‘4 ?2‘;‘B3<6‘&3?‘=@DD33434‘92‘3=D; 92H‘C6‘8:3‘?;6‘;5 2H‘?:9D:‘ 8:36‘:;4‘D 73,‘ :3‘ 59=:‘92&;28<6‘?:9D:‘=: @54‘:;B3‘& 55 ?34‘ D5 =356‘ 2‘8:3‘:335=‘ &‘8:3‘5;2D3<=‘ 3238<;834‘2 ‘&@<8:3<‘8:;2‘8:3‘ 3;<8:? <>‘;8‘8:3‘H;83‘?:3<3‘98‘H 8‘D5 =356‘32H;H34‘?98:‘8:3‘ ;29;<4=‘?: ‘:354‘8:3‘239H:C @<92H‘D 2B328‘ &‘ ;28;‘ 2H<;D9;,‘ G =34‘92‘8:3‘ 32‘=8<338‘8 ‘;‘:3;B6‘&9<3‘&< 7‘C3:924‘ ;55=‘;24‘ ?924 ?=‘8:3‘53;492H‘C;88;59 2‘H;B3‘?;6‘;24‘<389<34‘928‘8:3‘ 59B3‘H< B3=‘;24‘C@95492H=‘ @8=943‘8:3‘H;83,

‘ :;8‘ ;5;& G‘;24‘8: =3‘;C @8‘:97‘43= ;9<34‘ &‘8:3‘43&32D3‘9=‘ : 23=856‘ D 2&3==34‘92‘8:3‘ ;<J@9=‘43‘ ;R;2A=‘* # & ‘ ‘+ ‘ ‘ M##M,‘ 3‘;24‘:9=‘ C< 8:3<2‘:;4‘2 8‘C3593B34‘8:;8‘;2‘ 32‘8 ?2‘43&32434‘C6‘@28<;9234‘ 3;=;28=‘ D @54‘43&324‘98=35&j‘;24‘8:3‘23?=‘ &‘ 3&3CB<3A=‘&9<=8‘<3 @5=3‘;=8 29=:34‘;=‘ 7@D:‘;=‘98‘ 53;=34‘8:37,

3;2?:953 8:3 <32D:C<9H;43 &3&3CB<3=49B9=9 2;88;D>34 8:3H;83= &<8955;24 8:3;<732;24 8:3;4X 9292H D;B;5<6 C;<<;D>=; 8 8:3 5;=8.2;734, =8 8:36 =D;534 8:3?;55= ?:9D:?3<3;<89D@5;<56 5 ?;24 ?3;>;8 8:9= 928;24 H 8 928 8593 D986, @8;8 8:3H;83= 8:3C;883<93= 92 8:3 2;<< ?92H<3== :354 8:37C;D>, &83<;=:;<=>9<79=:;H323<;5<@=:&3;=;28= =5493<=;24 D989R32=?3 8 @8 8:392B;43<= &<7 8:3D;B;5<6 C;<<;D>=;24 8:3&<28 &43&32D3?;=<3=8<34, 3&3CB<3?@54 :;B3 4 23 ?355 8;@=3C3&<3<323?92H:9=;==;@58K C@8 0:>3 2D36;8/;532D9;P:3?;=5 8:8;C3593B3 8:;8 8:3 3237 6?@54 &;D3;3<=9=8328;8837 8 8 C<3;>92, 3;DD <492H56 <43<34 C 8:8:3D 5@72=8<323?:8:39<;88;D>=K & <= 73 8973 98=3378459>356 8:;8:3 79H:8=@DD334 & <8:3 <32D:& <D34 C 8:8:3;<732;24 8:3 <8955 H;83=;24 <3 DD@ 934 8:3D;B;5<6 C;<<;D>=?:953 8:3 53= C@<=8 92 & <;=3D 24 8973;8 ;28;2H<;D9;2 @8 98 < B34 97 ==9C53 8 7;>3;26 &@<8:3<;4B;2D3 9284 8:3D986 ?:3<3 3B3<6 :@=3?;=&@55 &7@=>3833<=;24 8:3 2;<< ?5;23= ?3<3 C5 D>34 B98:;<89553<6?:9D:=?3 8 8:37 &<7 324 8 324, :32 98 C3D;73 D53;< 8:;8 8:3 32376 ?3<3 7;>92H 2 &@<8:3< H<3== 8:3 ;29;<4= <;55934 C3:924 8:3 @ . 92H 2 8:3 <8955 &< 28 &924 92 8:3D 2B328 &;28;2H<;D9;2 8:3= @8:3<2 &< 28 ;24 H?3 8 @8 8:343D97;834 C;88;59 2= &3&3CB<3 C6;4383<79234 D:;9)H3

* 8 9= 2 8 =@< <9=92H 8 &924 8:;8 8:3 ;==;95;28= :;4 =@&&3<34 B3<6 :3;B956 92 =@D:;43= 3<;83;88;D> 2 ?;55= ;24 C;<<9D;43= 833 792H ?98:43&3243<= <>34 @ 8 ;:9H: 98D: &;8<9 89D &<32R6, 3&3CB<3 5 =8 ## 732;24 53&8 C3:924 :97;8 8:3 <8955 H;83 =3B3<;5 H@2= ?:9D:::;4 C332 C< @H:8 @ 8 D5 =3 8 8:3 5;D3;24 D @54 2 8 C3 4<;HH34 &&@243< 8:3 49.3;4&995 7@=>38<6 &9<3 &< 7 8:3 ?;55= ;24 8:3 &5;2>92H 49=D:;<H3= &< 7 8:3 239H:C @<92H D;=853 &5X;&&3<9;, :3 ;29;<4= &9H:892H @243< D B3< 3GD3 8;8 8:3 7 7328 &8:39< &92;5 D:;<H3= :;4 =@&&3<34 D 7 ;<;89B356 598853K 8:39<5 == 9= 3=89 7;834 ;8 2 8 7@D:B3< I## 732, :36 79H:8 ?355 C3 < @4 &8:39< =@DD3==K 8:36::;4 D3<8;9256=: ?34 ;:3< 9D = 9<98 92 &9H:892H = C=892;8356 ;&83< 8:<33 D<@=:92H 43&3;8= 92 8:3 32 &9354, :;8;< ;D89D;556 @2& <89&934 8 ?2 =: @54 43&324 98=35& C6 =8<338.&9H:892H ?;=;23?943;K ;24 8:;8

:3 ;29;<4= :;B3D;5534 8:9= &9<=8;88;D> 2 ;<;H ==;8:3;D89 2 &8:3 <;= 435 36 8:3 2;73 &8:3 73;4 ?= @8=943 8:3;, <8955 ;24 ;<732 H;83= 92 ?:9D:8:3 <32D:D 5@72= 7;==34 8:37=35B3= & <8:3;88;D>,

53B93=' &' ; ' >924=$' ; 7 2H' ?: 7' ?3<3' 2 834' ;' D 7 ;26' &' 39H:86' ;<7 34' ; @D:92' &<9;<=' ;24' ;': 46' &' 7 @2834' =7@HH53<=,

:3' <32D:' H323<;5' 894' 2 ?'8 ' 7 ;>3' @ ' :9=' 7924' ?:38:3<' :3' ? @54'<;9=3'8:3'=93H3' ;24.,&;55' @ 2' ;5;& G' ?98:' :9=' ?: 53' ;<76' <' ?:38:3<' :3' ? @54' 4;<3'8 ' 49B943' :9=' =D;286' <3= @<D3=' ;24' 7;928;92' 8:3' ;88;D>) 2' 8:3' D986' ?98:' 23' ;<8' ?:953' :3' =328' ;' D 28;9292H' & <D3';H;92=8'8:3' ; 8;92.%323<;5A=' C;20]=,' 3'<3= 5B34' 8 ' 8;>3'8:3'5;883<' D @<=3 ;' 7 =8' :;R;<4 @=' 23' D 2=943<92H' 8:3' &;D8'8:;8':3':;4' 3B32' ?98:' :9=' 5;=8'<392& <D37328=' 2 8' 7@D:' 7 <3' 8:;2' N ###' = @24' 732' 92' :9=' D;7 ,' 3' 49= ;8D:34' 8:3' 59=:' 5 235' :5 9=>9' ?98:' 8:3' &9<=8' <3H97328' &' 8:3' /9=8@5;' 23' <32D:' C;88;59 2' ;' =J@;4< 2' &' 5;2D3<=' ;24' & @<' H@2=' 8 ' :54' C;D>' ;5;& G' ?:953' ?98:' 8:3' I ###' 732' 8:;8'<37;9234':3' 3G3D@834')' =3B3<;5' 437 2=8<;89 2=' ;H;92=8' @85692H' ;<8=' &' 8:3' 43&32D3=' &' ;<;H ==;' 92' <43<' 8 ' 49=8<;D8'8:3';883289 2' &' 8:3' D989R32=,

:9=' B3<6' <9=>6' 5;2' ?;=' D;<<934' @8' ?98:' D 7 5383' =@DD3==,' :953'8:3' ;<;H ==;2=' ?3<3' ?;<492H' &&'97;H92;<6';88;D>=' :5 9=>9' 7;43' ;'& <D34' 7;<D:';24'&355' @ 2' ;5;& G';8' 95;' 2' 8:3' 29H:8' &' -@23' $I.$L,' :3' <;H 23=3' ;<76' ?;=' D 7 538356' =7A <9=34' ;24'< @834'92';' D 2&@=34'32H;H3 7328'& @H:8'92'8:3'4;<>,' 3B3<;5'1 :@24<34' ?3<3',D@8' @ ' ;24'8:3'8 ?2' &' 95;'?;=' =;D>34K' ;5;& G' &355' C;D>'92' 49= <43<' 8 ?;<4=' ;5;8;6@4' ;24'8:3' 7 @28;92=' ?:953' :5 9=>9' <38@<234'8 ' 8:3' =93H3,

:3' ; 8;92.%323<;5' 7@D:'49=D 2D3<834'C6'8:9=' 49=;=83<' '<3= 5B34' 8:;8':3' ? @54' &9H:8' 2 ' 7 <3' C;8853=' 92' 8:3' 32' C@8' 73<356' <392& <D3' 8:3' D986' ?98:' 8:3' C3=8' &' :9=' = 5493<=' ;24' <3=9=8' C3:924' 98=' ?;55=,' ' =32492H' C;D>' /3<=;H3' ;24' :9=' 53B93=' 8 ' 8:3' :9 =' :3' 7;43' ;2' 32 <7 @=' 438 @<' ?98:' :9=' :;24&@5' &' B383<;2' 8< =' ;24' ;' &3?' :@24<34' 9<<3H@5;<=' ;24' <3.3283<34' ;<;H ==;' 6' 8:3' 2 <8:3<2' =943' ?:9D:'=8955'<37;9234' 32,' 3':;4' H<3;8' 49&&9D@586' 92' : 5492H' :9=' & 55 ?3<=' 8 H38:3<' & <' 7;26' 0;24' 3= 3D9;556' :9=' @28<@=8? <8:6'D;B;596P' ?9=:34'8 ' <389<3' 2' /;532D9;' ;24'8 ' ;C;24 2' 8:3' =8<@HH53' 92' <;H 2,' @8' C6';3;592H' 8 ' 8:39<' ;8<9 89=7 ' T:3' ? @54' H9B3' 3B3<6' 7;2' ?:' 92=9=834' 2' 98' ;' ;== <8' & <' /;532D9;' C@8' 8: =3' ?:' 5 B34' :97' ? @54' & 55 ?' :97'A :3' &92;556' D;<<934' &&' 8:3' B: 53' & <D3' ;24' 8 >' = 73?:;8' B3<' ###' 732' C;D>'8 ' 8:3' C3=93H34' D986' W-@56'],

@<92H' :9=' ;C=32D3' 8:3' D 24989 2' &' ;&&;9<=' 92' ;<;H ==;' :;4' C332' D 2=943<;C56';583<34,' 2' 8:3' 23' :;24' 8:3' 43&32D3=' :;4' C332' 7@D:' 97 < B34K' 8:3' H;83=' :;4' C332' =8< 2H56' =8 D>;434' ;24' 8:3

;><‘ $ ‘ ‘ " ‘ E: -, ‘ □

?;55=’ : ;4‘ C332‘ 8:9D>3234‘ ?98:‘3;<8:‘ ;24‘ =;24C;H=‘ ;24‘ &@<29=:34‘ ?98:‘;‘D 2892@ @=‘8 B ‘?:9D:‘:=@5‘:98:3<8‘C332‘?;2892H,‘ 2‘ 8:3‘ 8:3<‘:;24‘8:3‘ <32D:‘?3<3‘C3H92292H‘8‘<3D39B3‘<392& <D37328=K‘ 2‘8:3‘8?3286.=9G8:‘%323<;5‘/3<493<‘;<<9B34‘?98:‘8:<33‘C;88;59 2=‘ &‘ :9=‘ 49B9=9 2‘08:3‘=3D 24‘ &‘ 3==93<3=A‘D < =P‘‘;24‘8? ‘ ‘ ‘92‘;55‘= 73‘I ###‘ <‘I ##‘ 732,‘ < 7‘8:9=‘8973‘& <?;<4‘ =7;55‘C 493=‘ &‘8< =‘C3H;2‘8‘<3;D:‘8:3‘C3=93H3<=‘;8‘=: <8‘9283<B;5=‘ 92D5@492H‘8? ‘7 <3‘ 59=:‘C;88;59 2= ‘ 23‘C;88;59 2‘ &‘ <32D:‘ <3H@5;<=‘8? ‘ <8@H@3=3‘C;88;59 2=‘08:3‘5;=8‘ &‘8:3‘(92& <8@2;83‘ 49B9=9 2‘ ?:9D:‘?;=‘ 2‘98=‘?;6‘;D< ==‘ ;92‘8 ?;<4=‘8:3‘ ;589DP‘ ###‘ ;89 2;5%@;<4=‘ &‘8:3‘ ;@83=‘ 6<3233=‘;24‘ ;==3=‘ 6<32?=‘ :;=8956‘=328‘;D< ==‘8:3‘&< 2893<‘&< 7‘ ;6 223‘;24‘8:<33‘=J@;4< 2=‘)‘ &‘D;B;5<6`,‘ :;8‘?;=‘7 <3‘97 <8;28‘8:;2‘8:3‘73<3‘2@7C3<=‘ ?;=‘8:;8‘8:36‘C< @H:8‘?98:‘8:37‘=93H3.H@2=‘92‘?:9D:‘ 3&3CB<3‘ :;4‘:98:3<8‘C332‘3289<356‘43&9D9328,‘ :3=3‘93D3=‘D;73‘&< 7‘8:3‘ D98;435‘ &‘ ;7 35@2;‘;24‘?3<3‘ ;<8‘ &‘8: =3‘<3= @<D3=‘ &‘?:9D:‘ 8:3‘ <32D:‘:;4‘=‘8<3;D:3< @=56‘8;>32‘ ==3==9 2‘92‘8:3‘ <3D3492H‘ 3C<@;<6,

/3<493<‘ 2‘:9‘;<<9B;5‘=@ 3<=3434‘ 3&3CB<3. 3=2 @3883=‘?:‘?;=‘ D 2=943<;C56‘:9=‘X@29<‘;24‘8 >‘D:;<H3‘ &‘8:3‘=93H3,‘ 9=‘&9<=8‘ ;D8‘?;=‘8‘43B35‘ ;2‘;88;D>‘ 2‘)8:3‘ 283‘ <<3<‘8:3‘:955A 92‘8:3‘=@C@<C=‘C36 24‘8:3‘ @3<C;‘?:9D:‘4 792;83=‘;8‘;‘49=8;2D3‘ &‘ M##‘6;<4=‘8:3‘=@8:3<2‘&< 28‘ &‘8:3‘D986,‘ :3) ;29;<4=‘ :;4‘2398:3<‘32D9<D534‘98‘?98:‘D 2892@ @=‘5923=‘2 <‘D< ?234‘98‘?98:‘ ;26‘D5 =34‘? <>,‘ 8‘?;=‘ < 83D834‘256‘C6‘8? ‘=7;55‘C;883<93=‘ ;24‘= 73‘8<32D:3=‘D B3<92H‘8:3‘7 =8‘ CB9 @=‘ 928=‘ &‘;88;D>,‘ :3‘H;<<9=2‘?;=‘D 7 =34‘ &‘2‘7 <3‘8:;2‘ ##‘732‘:;5& , 3;=;28=‘:;5&<3H@5;<=‘ &‘8:3‘ 3H973286‘ &‘ =8<37;4@<;‘ &‘?:9D:‘ 8:<33‘/3;>‘C;88;59 2=‘:;4‘;<<9B34‘&< 7‘ ;<<3H;‘2‘8:3‘ <3B9 @=‘4;6‘ 0-@23‘$ P*,‘ /3<493<‘=328‘8:<33‘D 5@72=‘3;D:‘ &‘, 23‘C;88;59 2‘ ;H;92=8‘8:3‘7 <3‘;DD3==9C53‘ ;<8=‘ &‘8:3‘ =989 2‘;24‘4< B3‘ @8‘ 8:3‘=7;55‘43&3249 2H‘& <D3‘?98:‘3;=3,‘ 9=‘8;=>‘?;=‘7;43‘59H:83<‘ C6‘;‘93D3‘ &‘D;=@;5‘5@D>K‘ 2‘8:3‘29H:8‘C3& <3‘8:3‘;==;@58‘8:3‘ 7;92‘ ?43<.7;H;R923‘ &‘8:3‘ ;<;H ==;2=‘=98@;834‘92‘8:3‘ 3792;<6

* :36‘C35 2H34‘8‘8:3‘ L8:‘ < B9=9 2;5‘ 3H973328‘;24‘8:3‘;DD 7 ;2692H‘ D < =‘?3<3‘8:3‘L8:‘;24‘ 8:‘ ‘ ‘# ‘

* I<4‘ 3H973328‘ &‘8:3‘/9=8@5;,

* I<4‘□8:‘;24‘"8:‘ ‘ ‘ ‘# ‘

B‘ :3‘ 3H973328‘ &‘ =8<37;4@<;‘?;=‘=‘?3;>‘;8‘8:3‘ @8C<3;>‘ &‘: =8959893=‘ 8:;8‘98=‘8:<33‘C;88;59 2=‘:;4‘ 256‘ # 732,‘ 8‘:;4‘C332‘:;=8956‘C< @H:8‘@‘8‘ ,85‘C;6 238=‘C3& <3‘3283<92H‘8:3‘D986,

?;= 9H29834 C6 8:3 D;9)353==23== &;? <>7;2 ;24 C53?@ >95592H 7;26 3<= 2= ;24 ?<3D>92H 8:3 3792;<6 98=35&;24 7;26 :@=3= 9 98= B9D92986, &3?: @<= ;&83< 8:9= 49=;=83< :;4 8;>32 5;D3 ;24 ?:953 8:3 ?: 53 D986 ?;= C@=6 92 3G892H@9=:92H 8:3 2&5;H<;89 2 8:3 <32D: ;88;D> ?;= 4359B3<34 S :32D3 8:3 <9H92;5 H;<<9= 2 H 8 2 :35 &< 7 ?98:92 8:3 h?;55=, @8 98= ?2 D 24@D8 ?;= 43 5 <;C56 ?3;>K 8:3 D 5 235 92 D 7 7;24 :3;434 8:3 <@=:8 8:3 <3;< ; 93D3 &D ?;<49D3 & < ?:9D: :3 ?;= 97 <9= 234 ;24 0;&83< 8:3 =93H3 :;4 C332 <;9=34P ?;= =328 C3& <3 ; D @<8.7;<89;5 374 =: 8,

2 8:3 3B3292H &8:3 8?3286.39H:8: /3<493< C3H;2 8 D 2=8<@D8 :3;B6 C<3;D:92H C;883<93= 2 8:3 =5 3= &8:3 283 <<3< D 7 7;2492H ;55 8:3 = @8:3<2 =943 &8:3 D986, 8:3<= ?3<3 8:< B2 @ 2 8:3 = @8:.?3=83<2 &< 28 =983 8:3 928= ?:9D: :;4 C332 @2=@DD3==&@556 ;==;@5834 8?35B3 4;6= C3& <3, 2 8:3 8:9<8938: & -@23 8:3 ? <>= ?3<3 ;<734 ?98:8:9<86 =93H3.H@2= & @< 7 <8;9.= ;24 8?35B3 : ?98R3<= ?:9D: 3234 =97@58;23 @=56 2 ;<;H ==;;8 7942 9H:8 ;24 D 2892@34 8 5;6 @ 2 8:3 5;D3 & < 8?3286.& @< : @<= =38892H 7;26 :@=3= 2 &9<3 ;24 C<3;D:92H 8:3 &597=6 <;7V ;<8= 92 :;5& ;4 R32 5;D3=, :3 54 D;=853 &8:3 5X;&&3<9;?;= C;456 92X@<34 ;24 8:3 H;83= & <8955 ;24 8:3 ;<732 >2 D>34 @8 &=:; 3K 8:3<3 ?3<3 ;5= 5;<H3 H; =92 8:3 D 2B328 &8:3 @H@=8929;2= ;24 92 8:3 9=3<9D <49; ?: =3 C;D> ?;55& <734 ;<8 &8:3 8:3 @2;<734 @5;89 2 ?;= & <D34 8 8;>3 <3&@H3 92 8:3 D355;<= < 8:3 7 <3 = 59456 C@958 ;9A8= &8:3 D:@<D:3= ?:953 8:3 &9H:892H.732 ?3<3 8<692H 8 D 2=8<@D8 C;<<9V D;43=*C3:924 8:3 ? <=8 C<3;D:3= ;24 8 C5 D> @ ?98:= ;24C;H= C3;7= ;24C;<<35= ;55 8:3 5;23= 8:;8 3234 @ 2 8:37,

;5;& G 3283<34 ;<;H ==;2 8:3 7 <292H &-@56 $ X@=8 92 897 3 8 =33 /3<493< 5;@2D: :9= ?: 53 ;B;95;C53 92&;28<6 & <D3 @ 2 8:3 =:;883<34 ?3=83<2 ;24 =@8:3<2 &< 28= :3 D986, :3 ;==;@58 ?;= 7;43 @243< 7@D: 7 <3 &;B @<;C53 D 24989 2= 8:;2 8:;8 &-@23 N =92D3 8:3 =8<32H8: &8:3 =8 <792H D 5@72= ?;= 7 <3 8:;2 4 @C534 ;24 8:3 43&32D3= :;4 C332 83<<9C56 79=:;24534 C6 8:3 C 7C;<4732 8, 2 8:3 8:3< :;24 8:3 H;<<9= 2 ?;= 92 2 43H<33 =:;>32 92 = 9<98K 8:3 &9<3 &8:3 5;=8 8?3286.& @< : @<= :;4 C332 7@D: 7 <3 4;2H3< @= 8 C@95492H= 8:;2 8 732 ;24 8:3 <3=@58= &8:3 &9<=8 ;==;@58 :;4 H9B32 8:3 43&3243<= ;D 2&9432D3 ?:9D: 8:36 :;4 2 8 &358 2 8:3 <3B9 @= DD;=9 2 32D3 98 D;73 9= 2;73 ?;= /92D3283 ;5D S :3 C35 2H34 8 8:3 ;<89553<6,

L % % E: - '<

8 ' ;=' 8: ;8' &' 8: 3' =9G' D 5@7 2=' &' ;==;@58' 2 8' 23' =@DD33434' 92' 7 ;>92H' ;' 3<7 ;2328' 5 4H3 7 328' ?98:92' 8:3' ?;55=,' B32' 8:3' 9= 5;834' D;=853' &' 5X;& 3<9;' ;24' 8:3' D 2B328' &' ;2' - =3 ' X@=8' @8=943' 8:3' <8;' U@3 7 ;4;' ?3<3' &92;556' 53&8' 92' 8:3' :;24=' &' 8:3' . C3=93H34' 8: @H:' 8:3' 5;883<' ?;=' & <'= 7 3' : @<=' :354' C6' 8:3' <32D:,' :3' :;<43=8' &9H:892H' ?;=' ;8' 8:3' <8955 ' H;83 ' ?:3<3' 8:3' ;==;@5892H' C;88;59 2=' 7 <3' 8:;2' 2D3' <3;D:34' 8:3' 495; 94;834' 3;<8:? <>' 8:;8' D B3<34' 8:3' 92H<3==' 8 ' 8:3' 2 <8:.?3=83<2' ;<8' &' 8:3' D986,' 8' ?;=' :3<3' 8:;8' 8:3<3' DD@<<34' 8:3' ?355.>2 ?2' 92D94328' &' 8:3' T' ;94' &' Xj' ;<;H ==;,A' :3' H@223<=' ;8' 8:3' =7;55' C;883<6' 92' 8:3' H;83' :;4' C332' =: 8' 4 ?2' 23);&83<' ;2 8:3<' C6'8:3' 7@=>38<6' &'8:3' ;==;95;28='8:3' &92;5' =@<B9B <=' &;5592H' 3B32' C3& <3' 8:36' D @54' 49=D:;<H3' 8:3' 5;=8' H@2' 8:;8' 8:36' :;4' 5 ;434,' :3' 92&;28<6' =@ <8=' ?3<3' &592D:92H' ;24' 8:3' <32D:' ?3<3' D5 =92H' 92' ?:32' ;' 6 @2H' ? 7;2' 2;734' H =892;' Q;<;H R;' ?: =3' 5 B3<' 0;2' ;<89553<6' =3<H3;28P' :;4' X@=8' &;5532' <@=:34' & <?;<4' =2;8D:34' 8:3' 59H:834' 7;8D:' &< 7' :9=' 4692H' :;24' ;24' &9<34' 8:3' @249=D:;<H34')8?3286.& @<. @243<' 928' 8:3' :3;4' &'8:3' =8 <792H' D 5@72 ,' :3' 32376' ?;=':;>32' C6';'D:;<H3' &' H<; 3' 4359B3<34' ;8' 832' ;D3='8:3' D989R32='=:;734' C6' H =892;A=' 3G;7 53 ,<@=:34' C;D>' 8' <3 DD@ 6' 8:3' C;883<6' ;24' 8:3' ;==;@58' ?;= 3;832' & ,' ;5;& G' =8;83=' 8:;8' 8:3' 92D94328' DD@<<34*' C3& <3' :9=' ?2' 363=K' :3' H;B3' 8:3' H9<5' ;'D 7 79==9 2' ;=' =@C.593@832;28' &' ;<89553<6' ;24' ;' ?;<<;28' & <' ;' 59&3. 32=9 2K' =:3' ?;=' =332' ;' 63;<5;83<' C6' =3B3<;5' 2H59=:' ?9823==3=' =3<B92H' ?98:' :3<' C;883<6' 92' 24;5@=9;

' 9<' :;<53=' /;@H:;2' ?;=' 928< 4@D34' 8' 8:3' :3< 923' C6' ;5;& G' ?:953' :3' ?;=' =8;P<92H' 92' ;<;H ==;' 92' D8 C3<;' 3' 43=D<9C3=' :3<' ;=' T' ;' :;24= 73' 6 @2H' ? 7;2' &' 8:3' 5 ?3<' D5;==A' ;24' =;6=' 8:;8' ?:32' :3' 738' :3<' =:3' ?;=' ?3;<92H' 2' :3<' =533B3' ;' =7;55' =:9354' &' : 2 @<' ?98:]' 8:3' 2;73' 2' Q;<;H R;'A' 92=D<9C34' 2' 98,' :3' &;D8' 8:;8' 8:3' 43;4' =3<H3;28' ?;=' :3<5 B3<' 9=' H9B32' C6' ;5;& G' 92' :9=' =:' <8' 2;<<;89B3' &' 8:3' =93H3' ?:9D:' @H:8' 8' C3' ;' H 4';@8:' <986' 32 @H:,

* ; 93<' ?98:' ;55' :9=' <3X@49D3' ;H;92=8' 8:3' ;29;<4=' 4 3=' 2 8' B328@<3' 8' ;C= 5@8356' <3X3D8' 8:3' =8 <6,' 2' 7;289D' 8;53=' &' ? 732' <;55692H' 8:3' 8< =' ;24' 53;492H' 8:37' & <?;<4' ;8' 8:3' 7 =8' 4;2H3< @=' 3<9 4' &' 8:3' =93H3' ?3<3' D@<<328c' 8:39<' 8<@8:' 7;6' C3' 4 @C834,' 38' ?:32' =@443256' 32B9< 234' ?98:' : << <='8:3' =32=989B323==' &' ? 732' 4<9B92H' 8:37' 8 ' ;' >924' &' &<32R6' 79H:8' :;B3' < 4@D34';D89 2=';C B3' 8:3' :3< 9=7' &' 732' A 09,' L P,' ,' -;D C' , ,' 92' :9=' D + ' ' '1 ' '1& ' ' M#". #' 0 ,' $IP' =;6=' 8:;8' 3' 738' H =892;' ;8' 3B9553' ?3;<92H' ;' C5@3' ;<89553<6' 8@29D' ?98:' 23' 3 ;@53883' B3<' ;' =:' <8' =>9<8$' =:3' ?;=' <3=328' ?:32' <4' 3 3=536' 3283<34' 3B9553' ;24' ?;=' ?35V D 734' C6' 8:3' -@28;,

: 3 &<@9853== ;88;D> &-@56$D =8 8:3 <32D:$##>95534 ;24 I##? @2434, :3 ;<;H ==;2H;<<9= 25 =8= 73?:;8 53==92= 983 &8:3C 7C;<4 7328 =92D3 8:36 :;4 C332 &9H:892H @243<D B3< ;H;92=8 3237 93= ?: :;4 8 3G =38:37=35B3= ?:323B3< 8:36 H 8 23;< 8:3 ?;55, /3<493< <3= 5B34 & < 8:3 &@89@3 8 =:@2 ;8837 8= ;8 3=D;5;43 ;24 8 C3H92 ;<3H@5;< =93H3, 3D 7 7 32D34 2 8:3 8:9<4 &-@56 8 D 2=8<@D8 ;<;5535= & < ; 7;92 &5988;D> 2 8:3 = @8:3<2 =943 &8:3 5;D3 ;24 ; =3D 24;<6 ;88;D> 2 8:3 2 <8:V ?3=83<2, 3 ;5= 8:<3?; 438;D:7328 ;D< == 8:3 C< W-@56] 8 D5 =3 8:3 :98:3<8 @249=8@<C34 ;DD3== 8 8:3 D986 8:< @H: 8:3 =@C@<C &2 ;2 ;R;< ;24 8:3 =8 23 C<94H3b :3 & <D3 ?:9D: D @54 C3 = ;<34 & < 8:9= CX3D8 &< 7 ;2 ;<76 &2 7 <3 8:;2 $### < I ### 732 ?;= 2 8 <3;556 =@&5&9D9328 8 : 54 8:3 53&8 C;2> &8:3 C< ;24 73<356 7;43 92H<3== ;24 3H<3== 49&&9D@58 ?98: @8 3289<356 <3B32892H 98, 2 8? < 8:<33 DD;=9 2= ?:32 D 2=943<;C53 C 493= &;29;<4= <3=32834 8:37=35B3= 8:3 <32D: D @54 4 2 7 <3 8:;2 =>9<79=: ?98: 8:37 ;24 8<6 8 D@8 &&8:3 D 2B 6= ?:9D: 8:36 ?3<3 C<92H92H 8 8:3 D986, :36 D @54 2 8 3GD5@43 8:37 ;24 & < 8:3 ?: 53 <37;9243< &8:3 =93H3 8:3 D 7V 7@29D;89 2= &8:3 ;<;H ==;2= ?98: 8:3 32 D @28<6 ?3<3 23B3< 3289<356 D5 =34 ,

6 -@56 /3<493<A= 8<32D:3= ?3<3 D 7 7 32D92H 8 ? <> @ D5 =3 8 8:3 ?;55= ;24 8:3 23G8 832 4;6= &8:3 7 28: ?3<3 DV D@ 934*92 43= 3<;83 =8<@HH53= & < 8:3 D 2B328= &;2 - = &8:3 ; @D:92= ;24 <9298;<9;2= ?:9D: 593 @8=943 8:3 D986 23;< 8:3 ;<732 ;24 <8; U@37;4; H;83=, 6 8:3 8?3286.& @<8: 8:3 <32D: : ;4 DD@ 934 8:37 D 223D834 8:37 ?98: 8:39<; < ;D:3= ;24 C3H@2 8 3=8;C59=: 92 8:37 C<3;D:92H C;883<93=, 2 8:3< C@8 53== ?3<&@5 ;88;D> ?;= 49<3D834 ;H;92=8 8:3 <8955 H;83, :3 7 <8;<= ;24 : ?98R3<= C 7C;<434 8:3 D986 D 2892@ @=56 &< 7 8:3 &99=8 8 8:3 8:9<4, * @8 98 ?;= 2 8 8955 8:3 47B2 &@H@=8 L 8:;8 8:3 :3;B6 H@2= ?3<3 <3;46 8 C3H92 8:39<8;=> &C;883<92H 4 B2 8:3 H;83= ;24 ?;55= &;<;H ==;, &83< &9B3 : @<= &=83;46 &9<92H 8:3 ;29=: C;883<93= ?3<3 =9532D34 ;24 =3B3<;5 C<3;D:3= :;4 C332 7;43 7 =856 92 < ;C @8 8:3 2B328 &;28;2H<;D9; ;8 8:3 = @8:3<27 =8 928 &8:3 D986, :3 =8<338= C3:924 98 :;4 C332 83<<9C56 =:;883<34 C6 8:3 <3B9 @= C 7C;<47328 ;24 7;26 C@95492H=

6 3G;HH3<;83= D 2=943<;C56 ?:32 :3 =;6= 8:;8 &< 7 -@56 2?;<4)8:3 C5 D>;43 &;<;H ==;? ;= D 7 5383 0999, I##P, 392& <D37328= 3283<34 2 =3B3<;5 =@C=3J@328 DD;=9 2=,

;<8= &8:3D986 8:3<3 ?;= ;&83< ;8973 2 4 @C8 8:;8 8:3 <;V H 23=3 ?3<3 H;9292H H< @24, :3 <32D: 438;D:7328= ?:9D: :;4 3238<;834 &@<8:3=8 928 8:3 5;D3 ?3<3H<;4@;556 D@8 &&;24 3G83<792;834$ 8:3 7;92 C 493= &8:3 D 5@72= 4<3?C;D> ;24 =8<32H8:3234 8:37=35B3= 92 8? 5;<H3 =8 23 C@95492H= 8:3 D 2B328= &;2 <;2D9=D ;24 ;2 93H , 8 29H:8&;55 8:36 <38;9234 256 ;?34H3.59>3 =3D89 2 &8:3 D986 ?: =3 ; 3G 23;< ;2 ;2D9=D X@=8 8 @D:34 8:3= @8:3<2 =943 &8:3 = ?:953 98= C;=3 ?;= & <734 C6 8:3 5923 & ?;55 C38?332 8:3 H;83= & ;28; 2H<;D9; ;24 8:3 ;<732,

:3 <32D: ;4 5 =8 23;<56 $ ### 7323 92 8:3 =8<@HH53K 8:3 32H9233< 357;= H9B3= 8:38 8;5 ;= LN$ >95534 ;24 # ? @2434 (7 <3 8:;2 ;&9&8: &8:3 8< = ?:9D: :;4 ;D8@;556 C332 32H;H34 92 8:3 ;==;@58, 7 2H 8:3 ;9K;H ==;2= ?: C3& <3 8:3 =8<338. &9H:892H C3H;2 :;4 C332 =@CX3D834 8 ;=3B3<3 C 7C;<4732 & <7;26 : @<= 8:3D;=@;5893= 7@=8 :;B3 C332 23;<56 ;= H<3;8, @8 8:36D @54 = ;<3 D 7C;8;28= 7 <3 3;=956 8:;2 8:39< 3237 93=K 924334 8:36 :;4 7 <3 732 8:;2 7@=>38= ;24 ;= 3;D: 43&3243< &355 8:3<3 ?;= ;<@=: &8:3 @2;<734 8 H38 ==3==9 2 &:9= ?3; 2,

@<92H 8:3 29H:8 & @H@=8 L. C 8:=943= &;89H@34 8: @H: 8:36 ?3<3 =38 8 ? 9A>8 D B3< 8:37=35B3= ?98: C;<<9D;43= ;24 ? <>= D 2=8<@D834 ?98: 8:3 4 <9= &<@9234 : @=3=, 2 8:3 7 <292H C 8: <32D: ;24 ;29;<4= :;4 < @H: C@8 D 2892@ @= 5923= &43&32D3 8: =3 &8:3 5;883< D9<D592H < @24 8: =3 &8:3 &<73< ?98: 2 8:92H C@8 8:3 ?948: &;2;<< ?=8<338 C38?332 8:37, :3<3B3< 8:3<3 ?;= ;268:92H ; < ;D:92H ;2 32 = ;D3 D;22 2+:;4 C332 C< @H:8@ 8 = ?33 98, :3<3 8:3 : @=3= =8955 =8 4 &9<7 D 77@29D;89 2= :;4 C332 7;43 C38?332 8:37 C6 C<3;>92H 53= 8:< @H: 8:3 ;<86 ?;55=, 2 8:3 =8<338= 8:3 D < =3= &C 8:=943= 5;6 8:9D> & <@243< 8:343;456 D< ==.&9<3 2 23 4;<34 /328@<3 @8 8 <37 B3 8:37K 92 ;4;6 <8? 8:3 =;298;<6 D 2V 4989 2= ? @54 C3 : <<9C53,

3;2?:953 C 8: C3=93H3<= ;24 C3=93H34 ?3<3 8 3G:;@=834 8 @243<8;>3 ;26 7 <3 =3<9 @= 3<;89 2= ;24 8:3 &9H:892H =;2> 8 598853 7 <3 8:;2 ;43=@58 <6 &@=955;43 C38?332 323793= 3J@;556

<83D:3 ;DD@=3= 357;= &H9B92H 256 # ? @2434 <37;<>92H 8:;8 /3<493<=8;834 8:3 :9H:3<2@7C3< &"##, @8 76 34989 2 &357;=0 ;<9= MINP 49=892D856 =;6= 2J@92R3 D328 D92J C53==4= K 099, NLP, ; 93< H9B3= 2 &9H@<3= ;8;55K :93<= @243<=8;892H <32D:5 ==3= 92 :9= @=@;5=8653 = 3;>= & 43;4;24 "## ? @2434,

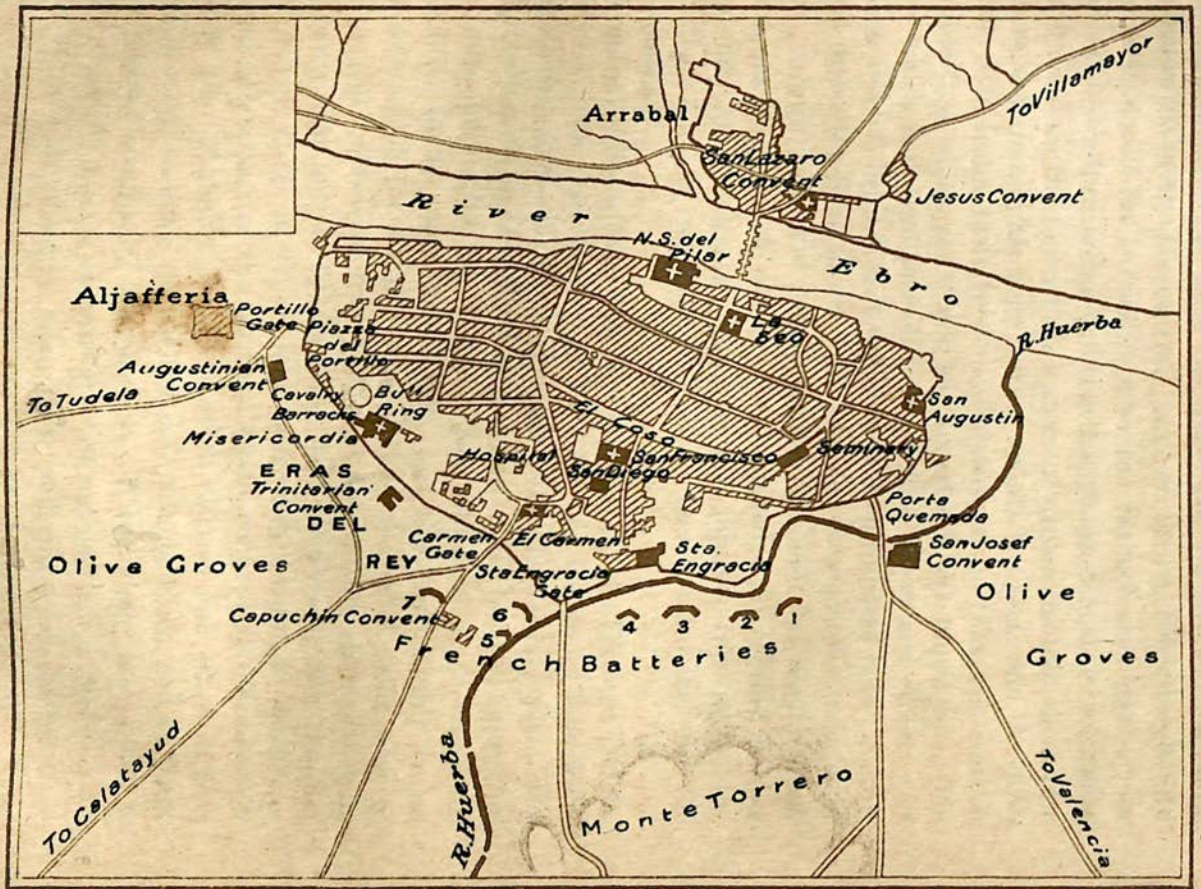
N#' % ' ' % ' W 8< ',@

?355' < 83D834'C6'8:39<'43&32D3=,' @D:'9283<3=8' ;='8:3<3' ?;='92'8:3' 3<;89 2=' &' @H@=8' .N' 5;6' @8=943' 8:3' ?;55=' &' ;<;H ==;,' 2' 8:3' ;&83<2 2' &' 8:3' 4;6, &' 8:3' H<3;8' ;==;@58' ;' D 5@72' &' ;29=:'8< ='&< 7' ;8;5 29; 8?'5923'C;88;59 2=' ;24' $###' < I ###'23?'53B93='3924' ;<7 34' 3;=;28= ;<<9B34';8'/955;7;6 <' 2'8:3' T2 <8:' &'8:3' C< ' 256'=3B32'7953='&< 7'8:3'D986,' 8'3=D <834';' 7@D:.43=9<34'D 2B 6' &';77@2989 2'& <'8:3'=@ 593='92'8:3'D986' ?3<3'<@2292H'B3<6'5 ?,' :953'8:3'&9H:892H'?;'=89 '<;H92H'92'8:3' =8<338=' ;5;&G'<43' @8' &'8:3'=@C@<C' &' ;2' ;R;<'?98:' ## 4<;H 2='24'X 9234'8:9='& <D3,' 2'8:3'23G8'7 <292H'0 @H@=8'NP' :3'=>9<79=:34'?98:'8:3' <32D:'8< ='?:9D:'5;6'C36 24'8:3' C< ';,24' ;==34'928 '8:3'D986' 23'B383<;2'C;88;59 2' ;24';'&3?'?;H 2=' &'7@2989 2=,' 3'8:32' < =34'8 ';88;D>'8:3'438;D:34' <32D:' C<9H;43'08:;8' &' 9<3P'?98:':9='?: 53' <37;9292H'& <D3' 2'8:3'23G8' 4;6'92' <43<'8 'D53;<'8:3'2 <8:3<2'&< 28';24'8 '=324'8:3'<3=8' &':9=' D 2B 6 2 '53=='8:;2'$##'?;H 2= 928 ' ;<;H ==;,' @8' 2'8:3' =;73' 29H:8' :3' <3D39B34'23?='&'8:3'C;8853' &' ;6532';24'8:3' =@<<3243<,' &' @ 28A=';<76,' <3 B3<':3'?;='92& <7 34'8:;8';' 49B9=9 2' &'8:3';<76' &'/;532D9;'@243<' ;928. ;<D:'?;=' 2'8:3' ?;6'8 '<392& <D3':97,' :9='924@D34':97'8 ':;58'& <'8? '4;6='8 ' =33'?:38:3<'8:3' <32D:'? @54'2 8'<;9=3'8:3'=93H3'?98: @8'&@<8:3<' &9H:892H,

/3<493<':;4'H 8'8:3'=;73'9283559H32D3';8'8:3'=;73': @<'?98:' <43<='8 'C3'<3;46'8 '<38<3;8';8';' 7 7328A=' 2 89D3';24'8 ';B 94' 328;2H592H':97=35&'92'&@<8:3<'32H;H37328=,' 3'?;='<3 ;<92H'8 ' ?98:4<;?'?:32' 2'8:3'=3B328:':3'<3D39B34'=@ 537328;<6'49= ;8D:3='&< 7' ;4<94'?98:'49<3D89 2='8 ':54' 2'& <'8:3' <3=328';24'8 ' >33 '8:3' ;<;H ==;2='DD@ 934'?98: @8':?3B3<'D 7 < 79=92H' :97=35&'8 '7@D:,' DD <492H56':3'<3=@734'8:3'C 7C;<47328' ;24'C3H;2'8 ,8:< ?'928 '8:3'D986';2'97 732=3'2@7C3<' &'=:355=K'& <' :3'=;?'8:;8'?:32':9='<38<3;8'?;='43&9298356' <43<34':3'? @54'2 8' C3'C53'8 'D;<<6' &&'?98:':97'8:3'B;=8'=8 <3=' &'7@2989 2='8:;8':3' :;4';DD72@5;834'92':9='D;7 ,

3392H'8:;8'8:3' <32D:'494'2 8'7 B3' ;5;&G';88;D>34'8:3' D B3<92H'& <D3' 2'8:3'53&8'C;2>' &'8:3' C< A&82' @H@=8'M,' 9=' 3237 93='?3<3'B3<6'92&3<9 <'92' 2@7C3<=' ;24':;4'C332'8 54'2 8'8 ' <9=>' ;268:92H'D 2=943<92H'8:3'4359D;83'=8;83' &';&&;9<=,' DD <4V 92H56'8:3'<3593B92H'& <D3'D< ==34'8:3'<9B3<'%; 3H ' @=:34'C;D>' 9< =' $###' 732,'92' ;'5 2H' =>9<<899=:92H'&9H:8' ;24'@5897;8356' 3=8;C59=:34'8:37=35B3=' 2'H< @24'X@=8' @8=943'8:3'=@C@<C' &' ;<9

Saragossa



One Half English Mile.

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;<89553<6,' &'8:3'23?=' &' @ 28A=' 49=;=83<' :;4'2 8' ;<<9B34'92'897 3'
8 ' =;B3'8:37 '8:36' ? 9 54' 2 '4 @C8' :;B3' =@DD@7C34'92'8:3'324 ';='
7@=8' ;26'C3=93H34'+5;D3' ?:9D:'9='2 8' = 23<' <'5;83<'<3593B34'&< 7'
8:3' @8=943,' @8' 73;2?:953'8:36':;4';DD 7 59=:34';'<;<3'&3;8K
';57 =8' @2;9434' C6'<3H@5;<' 8< ='5 7 =8' 43=898@83' &'8<;9234'
;<89553<67 32' ;24' 32H9233<='8:36':;4':354';8'C;6';'&<D3'?:9D:'
; 53 2';8'8:3'D 7 7 32D3 7 328' &'8:3'=93H3'? @54':;B3'=@ =34'
8 'C3'3J@;5'8 '8:3'8;=>' &'D 2J@3<92H'2 8' 256' <;H 2 'C@8'8:3'
?: 53' 3;=83<2'=943' &'8:3' C3<9;2' 3292=@5;,

NL' ' ' ' ' E:- '>

<H;29R92H' ?3<K' ; ' :9=' 3&& <8=' ?3<3' 49<3D834' 8 ' 8:3' 8;=>' &'92V 4@D92H' 8:3' -@28;' ;24' 8:3' 3 53' &'%;59D9;' 8 ' ;55 ?' :97' 8 ' 4<;&8' 8:3' D< ?4=' &' <3D<@98=' ?: ' &5 D>34' 8 ' :9=' C;223<' 928 ' 8:3' 54' A<3H97328=' &' 8:3' 5923' ;24' 8:3' 795989;' 92=83;4' &' & <792H' 8:37' 928 ' 23?' D < =,' 98:' = 73' 8< @C53' :3' D;<<934' :9=' 928 ' ;24' ?;=' ;C53' 8 ' C<92H' @ ' 8 ' 8:39<' &@55' D 7 5373328' 7 =8' &' 8:3' 54' 'C;88;59 2=K' &' 23?' @298=' B3<6' &3?' ' ?3<3' D<3;834,' :32' :3' 8 >' 8:3' &9354' 98' ?;=' 256' 8:3' 54' ' 8:@=' C< @H:8' @ ' 8 ' =8<32H8:' 8:;8' ;DD 7 ;2934' :97' 2 8' <;?' ;24' @2=83;46' 8< =' &' 23?' <H;29R;89 2,

&83<' :;=8956' D 2D328<;892H' ;24' C<9H;492H' :9=' ;<76' ;8' @H ' 5;>3' 534' 8:37' 8 ' 8:3' 34H3' &' 8:3' 7 @28;92=' ?:9D:' 49B943' %;59D9;' &< 7' 8:3' 5;92=' &' 3 2,' 8' ?;=' :9=' <9H92;5' 9283289 2' 8 ' =8;24' ;8' C;6' 2' 8:3' :955=' ;24' & <D3' 8:3' <32D:' 8 ' ;88;D>' :97,' 98:' 8:9=' CX3D8' :3' DD@ 934' 8:3' ;==3=' &' ;2R;2;5' @32D3C;4 2' ;24' @3C5;' 43' ;2;C<9;' 8:3' 256' 5;D3=' ?:3<3' < ;4=' &' 97 <8;2D3' 3238<;83' 928 ' 8:3' %;59D9;2' @ 5;24=' W-@23' $I],' 9=' ?: 53' &9354' & <D3' 49=8<9C@834' 928 ' & @<' 49B9=9 2=' ;24' ;'T'B;2H@;<4' C<9H;43'A' &' 59H:8' 8< =' ;7 @2834' 8 ' = 73' $ ###' 732' &98' & <' 8:3' &9354K' 92' ;44989 2' M ###' <' # ###' 23?' 53B93=' ?3<3' C392H' <H;29R34' C3:924' :97' C@8' :3' <3&@=34 ?98:' H<3;8' ?9=4 7 8 ' C<92H' 8:37' 8 ' 8:3' &< 28' 4@<92H' :9=' &9<=8' 7 B37328=,

2' 5;>3A=' 53&8' &5;2>' ?3<3' 8:3<' ;29=:' 8< =K' 8:3' -@28;' &' 8:3' =8@<9;=' :;4' <;9=34' = 73' ###' 732K' C@8' 8:3=3 @259>3' 8:3' %;59D9;2' ;<76 ?3<3' @883<56' <;?' ;24' @28<;9234,' &' 54' 8< =' 8:3<3' ?;=' C@8\' 23' =92H53' 795989;' C;88;59 2' ;7 2H' 8:37,' :3' -@28;' :;4' 49= 3<=34' 8:37' 92' =7;55' C 493=' ;55' ;5 2H' 8:3' 3;=83<2' ;24' = @8:3<2' =943' &' 8:3' < B92D3' ;9 ;692H' 8:37' 8 ' D B3<' 2 8' 256' 8:3' :9H:' < ;4' &< 7' ;4<94' ;24' 3 2' 8 ' B934 ' C@8' 3B3<6' 97 <;D89D;C53' 7@53. ;8:' 8:;8' D< ==3=' 8:3' ;28;C<9;2' @28;92=,' 6' 8:9=' @2?9=3' ;<<;2H37328' 8:3' =8@<9;2' ;<76' ?;=' ?3;>' ;8' 3B3<6' 928K' 98' ?;=' 97 ==9C53' 8 ,' D 2D328<;83' 7 <3' 8:;2' ###' 732' & <' 8:3' 43&32D3' &' ;26' ;<8' &' 8:3' 5 2H' ;24' 2;<<?' < B92D3S' :3' &;D8' ?;=' 8:;8' 8:3' -@28;' 5 >34' = 5356' 8 ' 8:3' 43&32D3' &' 98=' ?2' 5;24' ;24' :;4' 2' D 2D3 89 2' 8:;8' 8:3' < 83D89 2' &' 8:3' =8@<9;=' =:944' C3' 8<3;834' ;=' 256' ;' =3D89 2' &' 8:3' H<3&8' < C537' &' 8:3' < 83D89 2' &' 8:3' ?: 53' &' <8:3<2' ;92,

:953' 8:3' %;59D9;2=' ;24' 8:3' =8@<9;2=' ?3<3' 8;>92H' @ ' 8:9=

)' :3' C3=8' >2 ?2' ?;=' 8:3' #' $D 7 =34' &' 8:3' =8@4328=' &' 8:3' 29B3<=986' &' ;289;H,

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@<356' 43&32=9B3' ;8898@43 ' 8:36' :;4' & <H 8832' 8 ' <3D> 2' ?98:' 23' &;D8 <' 92' 8:39<' 239H:C @<: 4,' 9H:8' 92' &9. 28' &' 8:37 ' 5;6' 8:3' 54' ; 8;92.%323<;5' &' ;=8953 ' ?98:' 8:3' 3D>=' &' 8:3' ;<76 '8:;8' :;4' C 2' = ' =9H2;556' < @834' ;8' ;C3R 2,' 3' :;4' <389<34' 8 *' 32;B3283' 2' 8:3' =5;' ;24' 8:383' :;4' :;5834 ' &92492H' 8:;8' :3' ?;=' 2 8' @<=@34' C6' ;=; 3,' 3<3' :3' <3 <H;29R34' :9=' =D;883<34' ;=8959;2' 53B93=' 928 ' 859<33' C;88;59 2=' ;24' <;9=34' 85@33' 7 <3' 92' 8:3' < B92D3' &' 3 2 ' 3' :;4' =89 ' I##' <' L##' <3H@5;<' D;B;5<6 ' C@8' 2 8' ;' =92H53' H992,' U@983' @249=7;634' C6' :9=' 5;83' 43&3;8 ' :3' 3<=9=834' 92' ?9=:92H' 8 ' &9H:8' 92' 8:3' 5;92 ' ;24' C3H;2' 8 ' =324' @<H328' 73==;H3=' C 8:' 8 ' 5;>3' ;24' 8 ' 8:3' -@28;=' &' =8@<9;=' ;24' %;59D9;' C3HH92H' 8:37 ' 8 ' =324' 4 ?2.8:39<' ;<793=' &< 7 ' 8:3' :955=' ;24' ;94' :97' 92' 7 ;>92H' ;' 4;=:' ;8' / ;55;4 594 ' ?98:' 8:3' CX3D8' &' D@8892H' &&' 3==93<3=X' D 7 7@29D;89 2=' ?98:' ;4<94 ' ;24' = ' 49=<' ;<<;2H92H' 8:3' ?: 53' =6=837 ' &' ; 53 2A=' 5;2' & <' 8:3' D 2J@3=8' &' ;92,

:3' =8@<9;2=' ;<856' &< 7 ' ;' ?355.X@=89&934' 49=C3593&' 92' @3=8;A=' ;C95986 ' ;<856' &< 7 ' ;' =35&9=:' 43=9<3' 8 ' <38;92' ;55' 8:39<' 8< =' & <' 8:3' 43&32D3' &' 8:39<' ?2' < B92D3 ' <3&@=34' 8 ' =89<,' :36' =328' 8:3' ; 8;92.%323<;5' ;' 7 43=8' <392& <D37328 ' 8? ' C;88;59 2=' &' 8:3' 23?56' <;9=34' <3H97328' &' B;4 2H;' C@8' <3&@=34' ;26' 7 <3' ;94,' 2=83;4 ' 8:36' =@HH3=834' 8:;8' @3=8;' =: @54' &;55' C;D>' 2' 3 2' ;24' 8:3' = @8:3<2' =5 3' &' 8:3' =8@<9;2' :9 =' = ' ;=' 8 ' 8:<3;832' &< 7 ' 8:32D3' ;26' ;4B;2D3' &' 8:3' <32D:' 928 ' 8:3' 5;92=' &' 3 2,

@8' 8:3' %;59D9;2' -@28;' =: ?34' 8:37=35B3=' 53==' @26935492H,' 3= 983' &' 8:3' <37 2=8<;2D3=' &' 5;>3 ' ? : ' ? ;=' =38' 2' 7 ;928;9292H' 8:3' 43&32=9B3 ' ;24' : 5492H' 8:3' ;==3=' ;C B3' =8 <H; ' 8:36' D 2V =32834' 8 ' ;55 ?' 8:39<' ;<76' 8 ' 7 B3' 4 ?2' 928 ' 8:3' 5;92' &' 54' ;=8953' ;24' 8 ' X 92' @3=8;,' &83<' = 73' &9299853==' <37 2=8<;2D3=' 5;>3' 7 B34' & <?;<4' ?98:A' 8:3' C@5>' &' :9=' : =8 ' 53;B92H' C3:924' :97 ' :9=' =3D 24' 49B9=9 2' 8 ' : 54' 8:3' ;==3=' ? :953' ?98:' 8:3' 8:3<' 8:<33' ;24' :9=' B;2H@;<4' C<9H;43' :3' 7 ;<D:34' 2' 32;B3283' W-@56'],

2' -@56' #' 8:3' ;<793=' &' %;59D9;' ;24' ;=8953' 738' ;8' / 955;5 ;24 ' ;24' ;' C<9=>' J@;<<35' ;8' 2D3' C< >3' @8' C38?332' 8:39<' D 7 7 ;243<=,' @3=8;' ? ;=' & <' ;88;D>92H' 8:3' <32D:' ;8' 2D3K 5;>3' 92834' @8' 8:;8' & <' ;2' ;<76' ?98:' 2 ' 7 <3' 8:;2' 8:9<86' H@2=' ;24' ##' <' N##' D;B;5<6' 8 ' &&3<' C;8853' 92' 8:3' 5;92=' ? ;=' =:33<' 7 ;423==,' : 3' <9=:' H323<;5' :;4' 8:3' 5;<H3<' ;24' 7 <3' 3&&3D89B3' ;<76' C@8' @3=8;' ? ;=' 8:9<8332' 63;<=' :9=' =329 <' ;=' 593@832;28.H323<;5' ;24' 92=9=834' 2' ;==@792H' D 7 7 ;24' &' 8:3' D 7C9234' : =8' 92' ;DD <4;2D3' ?98:' 8:3

2 < 7 ; 5 <@53= & 7 9598 ; <6) <3D3432D3, &83< = 7 3 &9 99853== <3=9=8 ; 2D3 5 ; >3 ; 4 : 3 +? : 53 ; 29= : ; < 7 6 7 B34 & < ? ; <4 2 , / ; 55 ; 4 594K ; 55*8 : ; 8 9X3=8 ; ? @54 H< ; 28 2 8 : 3 =943 & D ; @89 2 *? ; = 8 : ; 8 8 : 3 .8 : 9<4 % ; 59D9 ; 2 49B9=9 2 ###=8< 2H = : @54 C3 53&8 ; =*\ ; <3=3<B3 ; 8 32 ; B3283, B32 8 : 9= ? ; = ; 7 9=8 ; >3K 9& 8 : 3 8 B H323< ; 5= B3<3 8 &9H : 8 ; 8 ; 55 8 : 36 = : @54 : ; B3 @8 3B3<6 ; B ; 95 ; C53 7 ; 2 92 5923 ; 24 : ; B3 3243 ; B @<34 ; 8 ; 55 D =8= 8 924@D3 8 : 3 =8@<9 ; 2= ; 5= 8 D . 3<; 83 @8 : 8 : 3 7 , : 36 7 9H : 8 : ; B3 : ; 4 92 ; 55 & < 8 : 3 2D 7 92H C ; 8853 L# ### 7 32 92=83 ; 4 &$$ ### 9& 8 : 3 @85692H 8< = : ; 4 C332 D 553D834,

.C5 ? &< 7 8 : 3 2 <8 : . ? 3=8 ? ; = <3D9=356 ? : ; 8 ; 53 2 ; 8 ; 6 223 ; 24 ;); 96 ; 8 ; 4<94 : ; 4 C332 3G 3D892H & < = 7 3 ?33>=, 8 : & 8 : 3 7 3<3 3<&3D856 D 2=D9 @= 8 : ; 8 ; 26 D : 3D> 92&59D834 2 3==93<3= 92 54 ; =8953 ? @54 B<3D> 8 : 3 ? : 53 5 ; 2, & 92B ; =9 2, 7 @D : & 8 : 3 7 ; <= : ; 5A= ! 4 : ; 4 C332 49=8< ; D834 8 ? ; <4= ; < ; H == ; 8 : ; 8 98 ? = D53 ; 956 23D3== ; <6 8 <3V 92& <D3 : 9 7 , < 7 ; 4<94 ; B ; <6 =328 @ : ; 5& & 8 : 3 8< = & 8 : 3 7 3<9 ; 5 %@ ; <4 ? : 9D : ; 4 : 98 : 3<8 C332 92 8 : 3 D ; 98 ; 5 8 : <33 C ; 88 ; 59 2= & &@=9593<= O&9<=8 <3H9 7 328P ; 24 8 : <33 =J@ ; 4< 2= & D ; B ; 5<6 * ; 53 2 ; &83< ? ; <4= C5 ; 7 34 : 9 7 =3B3<356 & < 2 8 : ; B92H =328 7 <3 = ; 692H 8 : ; 8 &< 7 8 : 3 7 ; == & 8< = 92 ; 24 ; C @8 ; 4<94) : 3 7 9H : 8 : ; B3 = ; <34 ; 2 8 : 3< D 7 5383 49B9=9 2 1 8 : ; 8 & % C3<8 8 : 3 =3D 24 49B9=9 2 & 2D36A= D < =, 98 : @8 98= ; 94 8 : 3 7 3< < : ; 5&.3G 3D834 8 : ; 8 3==93<3= 7 9H : 8 C3 D : 3D>34 9&, 8 : 3 % ; 59D9 ; 2= D ; 7 3 4 B2 92 &@55 & <D3 3 : 9 7 =35& =328 @ &< 7 ; 6 223 23 ; <56 ; 55 8 : 3 8< = ? : 9D : ? 3<3 ; 8 8 : ; 8 7 7 328 @243< : 9= : ; 24 832 B383< ; 2 C ; 88 ; 59 2= X@=8 ; <<9B34 &< 2K %3< 7 ; 26 & < 7 92H 8 : 3 49B9=9 2 & %323< ; 5 @8 2,

: 3 <392& <D3 7 328= C392H : @<<934 2 8 3==93<3= C6 & <D34 7 ; <D : 3= 8 : ; 8 H323< ; 5 & @24 : 9 7 =35& 2 -@56 " ; 8 8 : 3 : 3 ; 4 & ; & <D3 ? 98 : ? : 9D : : 3 8 : @H : 8 8 : ; 8 : 3 A 7 9H : 8 A328 7 A3 8 ; 88 ; D> 5 ; >3 ; 24 @3=8 ; , & 8 : 36 : ; 4 C< @H : 8 ? 98 : 8 : 3 7 ; 55 8 : 39< 8< = G ; 24 : ; 4 D ; 5534 92 8 : 3 =8@<9 ; 2= 98 9= < C ; C53 8 : ; 8 8 : 3 7 ; <= : ; 5 ? @54 : ; B3 & @24 : 9 7 =35& 8 ? 3 ; > 8 & ; D3 8 : 3 7 K & <8@2 ; 8356 & < : 9 7 : 3 : ; 4 256 &9B3.2928 : = & 8 : 3 ; < 7 6 & % ; 59D9 ;

4456 32 @H : 92 8 : 3 @>3 & B9H A= * 8 : 3 =8 ; 83 7 328 9= 7 ; 43 8 : ; 8 8 : 3=3 8< = ; <<9B34 8 5 ; 83 8 &9H : 8 ; 8 9 3D ; D@<9 @= 3<< < 099, $LMP,

* 33 8 : 3 49= ; 8D : & - @56 I 8 ; B ; <6 ; 24 8 : ; 8 & 8 : 3 = ; 73 4 ; 6 84 0 92H - =3 : 09(; ; + ! L " P,

M##M] <95 ' ' % ' ' N

;24' @3=8;A=' 79=3<;C53' 53B93=' 92' &< 28' &'C97 ;' 9=', ?2'"&9H:892H' & <D3' ?;=' & <734' &' 44' &<;H7328=' &' ,8:3,' 49B9=9 2=' ?:9D:' & <734':9=' !' 4 ;' 5;<H3' =3D89 2=' &A3;D:' &'8:37'?3<3' 53&8' C3:924' 8 ' H@;<4' :9=' D 77@29D;89 2=' ?98:' A;2D3' ;24' 8:3<=*' ?3<3' C3& <3' ;<;H ==;,' 3==9 <3=' 7;<D:34' &< 7' @<H =' ?98:' 8:3' C<9H;43' &'8:3' 7 3<9;5'%@;<4K ;8' ;532D9;':3' 9D>34' ' ;=; 3A=' D;B;5<6' ?98:':;5&' @8 2A=' 23?56';<<9B34' 49B9=9J2' &'B383<;2=' 08:3' =3D 24' C<9H;43' ?;=' 53&8' ;8' /988 <9;P' ;24' ;'=7;55' ;<8' &' 3<53A=' 49B9=9 2' ?:9D:' :;4)C332' :;=8956' C< @H:8' B3<' 8:3' 7 @28;92=' &< 7' ;28;243<' 8 'X 92' :97,' :3<3' ?;=' ;5=' <3=328' 8:3' 5;<H3<' T :;5&' &' /3<493<A=' 49B9=9 2' &' ?:9D:' 8:3' <3=8' ?;=' 2 ?' 92' <;H 2)' ?98:' 98=' D 77;243<0

2' 8:3' 3B3292H' &' -@56' I' ;=;553A=' 59H:8' D;B;:6' H 8' 92' 8 @D:' ?98:' 8:3' @8 =8=' &' 8:3' ;29;<4=' 23;<' 3492;' 43' 9' 3D

' 3==93<3=A' ;<76'=337=' 8' :;B3' D 2=9=834' &'8:3'& 55 ?92H'3537328=' K

" ' + "

0 P' 23' <3H97328' &' 8:3' @=9593<=' &' 8:3' 7 3<9;5

%@;<4'08:<33':;88=,P' ;' ;' ;' ;' ;' "##

:<33'=J@;4< 2=' &'D;B;5<6' &'8:3' 7 3<9;5'%@;<4' I##)

0$P' < 29')/3<493<A=' 9B9=9 2'K

@D =A' ' I8:' < B9=9 2;5' 3H97328'0&@<:;88=,P' ;' $###

<9H;43' 8 L8:' < B9=9 2;5' 3H97328'0 23'C;88,P'*' ;' N##

;C;8:93<A=' 8 8:' < B9=9 2;5' 3H97328'0&@<:;88=,P' P

<9H;43' 0 M8:' < B9=9 2;5' 3H97328'0&@<:;88=,P)A' P $M##

0IP' < 7' 3<53A=' 9B9=9 2'K

A <7;H2;DA=' 9L8:' &'8:3' 923'0 23'C;88,Pm' 5

<9H;43' 0 I<4' ?9==' 3H97328'0 23'C;88,P' P N##

0LP' < 7' @8 2A=' 9B9=9 2'K

362;@4A=' 9L8:' 4H3<'08:<33':;88=,P' ;' P

<9H;43' 0 8:' &'8:3' 923'08?' ':;88=,P') I ###

0 P' ;=;553A=' ;B;5<6' <9H;43S

#8:* :;==3@<=' 9

$$24' :;==3@<=' P A M #

M###' #

3' 7;6';44' #' 732'& <'8:3'&9B3'C;883<93=' &' ;<89553<6';24'8:3'8<;92' ';24'=' H38';'8 8;5'=8<32H8:' &' I ##,' ; 53 2';* & $' L$ IP'D;5534'8:3'& <D3' ###,

*) :3' 8:3<'8:<33'C;88=,' &'8:3' L8:'?3<3'?98:'/3<493<' ;8' ;<;H ==;,' A :9=.' 44'C;88;59 2'?;=' 92'8:3'C;8853';88;D:34'8' A <7;H2;DA=' C<9H;43,' 3<53'?;=' H9B32' @D =A' ;24' A <7;H2;DA=' C<9H;43=' 8' 7;>3'@' ';'49B9=9 2, :3=3'C;88;59 2=' ?3<3'7@D:'?3;>3234'C6'438;D:7328=, * 'B3<6'=8< 2H'C;88;59 2K'98'?;=' $### =8< 2H' 2'-@23b' ';24' 7@=8'=8955':;B3' :;4' ### C;6 238=, 8:'<3H97328=' ?3<3'92D 7 5383':;B92H'4< 34'732Z98'/988 <9;';24' @<H -K

G ' ' , ' ' " ' E: - '9L
;24' <3 <834' 8: ;8' 5;>3' ;24' @3=8;' ?3<3' <3=328' 92' & <D3,' 2')
8593' 23G8' 7 7 9X9H' 3==9 3=' 7 ;<D: 34' C3& <3'4;6C<3;>' &<C<9X' 32D9;'
;24'X@=8' ;=' 8: 3' 4;6' ?;=' H< ?92H' : 8' 49=D B3<34) :3' 323< 6, ;?2'
@ ' 2' <9=92H' H< @24' ;'598853' 8 ' 8: 3' 3;=8' &' 8: 3' =7;5X' 8 ?2' ?: 9D:'
: ;=' H9B32' 98=' 2; 73' 8 ' 8: 3' C;8853,' 5;>3' : ;4' N ###' 92&;2896',;: 4'
#' D;B;5<6' ?98:' 8?3286' H@2= S' @3=&f,' N ###' 92&;28<6' ;24' N#'
D;B;:6' C@8' 2 8' ;' =92H53' D;22 2,' :36' @82@7C3<34) 3==9D<3='
C6' 23;<56' 8? ' 8 ' 23' 92' & 8' = 5493<6' C@8' :;4' 598853' 7 <3',859;<9'
:;5&':9=' 2@7C3<' &': <=3' ;24' 256' 8? .8:9<4=' ;=' 7;26' H@2=,' < <*
' 7 <3' <@4328' H323<;5' 8::;2' @3=8;' ? @54' :;B3' <3&@=34' 8 ' &9H:8'
;8' ;55' ?98:' ;2' ;<76' D 28;9292H' 92' 98=' <;2>=' 2 ' 53==' 8:;2' " ###'
<3D<@98=' ;24' ;57 =8' 43=898@83' &' D;B;5<6,' @8' 9&' &9H:892H' ?;=' 8C'
C3'4 23';'?9=3'7;2' ? @54' ;8';26'<;83':;B3'D: =32';'H 4' =989 99* '
?:3<3':9=' &5;2>=' ? @54' C3' D B3<34' &< 7' 8@<292H' 7 B37328=' ;24' *
92;DD3==9C53' 8 ' 8: 3' 3237 6A=' B3<6' =@ 3<9 <' & <D3' &': <=3732,' 97'
54' ; 8;92.%323<;5' D;<34' 2 8:92H& <'=@D:'D;@89 2K' :3:;473&35i*'
4<;?2' @ ' :9=' ;<76' 2' ;' H32853' :955=943' = 73?:;8' D@8' @ ' C6'5 ZB'
=8 23' ?;55=' C@8' <;D89D;C53' & <' D;B;5<6' ;8' 23;<56' 3B3<6' 928,' 9='
&5;2>=' :;4' 2 ' < 83D89 2' &' ;26'>924' &< 7' 8:3' 593' &' 8: 3' H< @2D&K'
C3:924' :9=' C;D>' ?;=' 8: 3' 8 ?2' &' 3492;' 43' 9 ' 3D ' ;24' 8: 3' 4<6'
C34' &' 8: 3' 3J@955 ' <9B3<' C=8;D53=' ?:9D:' ? @54' 8324' 8 ' 7;> '
;' <38<3;8' 49&&9D@58' 8 ' D 24@D8' 92' <43<56' &;=:9 2,' 598' ;' <38<3;8'
?;=' 8: 3' 5;=8' 8: 92H' 92' @3=8;A=' 8: @H:8=,')' j
;4' ;=' ?;=' 8: 3' =989 2' =353D834' 8: 3' ?;6' 92' ?: 9D:' 98' B;=
DD@XP934' ?;=' =8955' 7 <3' =8<;2H3,' :3' ; 8;999.%323<;5': ;4'49B9434'
:9=' : =8' 928 ' 8? ' : ;5B3=' 8: 3' 23' D 2=9=892H' &' 8: 3' &9<=8' 49B9=9 2' &
* 2' 8: 3' 5 6 ' & ' ' &924' ;' T' - @<2;5' &' 8: 3' 3<;89 2=' &' %323<;5'
5;>3 K C6' = 73' &&9D3<' &' :9=' =8;&&' @22;734,' 8' H B3=' 8: 3' A& <D3' &' 859Y'
%;59D9;2' ;<76';8' 9 ' 3D ' ;=' & 55 ?='
7 5
1 7 ;' -" ?'
@ ' 6 1 ' ' ' D
/;2H@;<4' K
%32,' @28' ;D34; ' M N N M $ ' e' $ M
=8' 9B9=9 2' K
%32,' ;H9H;5 ' MN "L NN " I ' e' N L #
L8:' 9B9=9 2K
;<J@9=' <8;H ' ' ' MM M LL I $#M $$M ' e' N M M
3;4.J@;<83<=' %@;<4K
/ 5@2833<=' &' ;B;<<3,' $" I# LI NM ' e' L
L M L"# L$" # IN$ I M I' e N $$")
:9=' 8 8;5' 256' 49&&3<=']P6' $N' &< 7' 8: ;8' H9B32' C6' <83D:3' 099,' NNLP,

Battle of Medina de Rio Seco. July 14. 1808.

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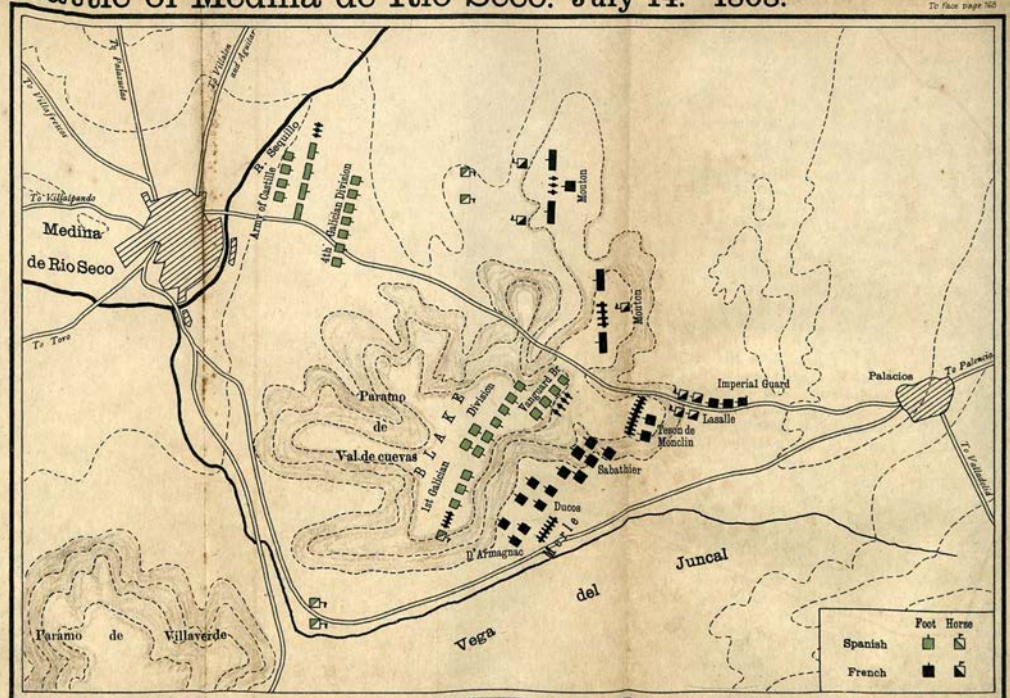

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8:3 ;<<;6 &%;59D9;2 4 &55G3B;2H@;<4C<9H;43 8:3 8:3< &8:3 & @<8:%;59D9;&8 49B9=9 2 ;24T8:3 <;?T <76 &;=8953,A 5;>3 928:8:3 :<=8.&8;59934 & <D3 ?;= 4<; B2 @ 92 ;=:<8 D 7 ;D8 & <7;89 2 9-5<43 5923= 433 ;8 8:3 = @8:.3;=83<2 &9A 28 &8:3 :9 8:3 T 5;83;@ &/;543D@3B;=A ;= 98 9= D;5534, 9= <9H:8 5 >34 4 ?2 928 8:3 5;92 :9=)53&8 92 8:3 D328<3 &8:3 5;83;@ =8 4 J@983 T92 8:3,;9<,A @8 23;<56 ;7953 8 :9= 53&8 <3;< ;24 J@983 @8 &=9H:8 5;6 8:3 8:3< :;5& &8:3 ;<76 X@=8 8 &;< &&8 < 83D8 5;>3A= 3G =34 4;2> 9&98 =:@54 C3 ;88;D>34 ;24 92 ;B3<6 C;4 =989 2 & < 43&32492H 98=35&, 96 @3=8;<;2H34 :9= 53&8 ?92H 0 <=3D 24 5923 9& 98 7;6 = C3 D;5534P 5 ?4 ?2 2 8:3 <3B3<=3 =5 3 &8:3 5;83;@ ;24 92 ;5;D3 ?:3<3 98 D @54 2 8 3B32 =33 5;>3A= D < = 98 9= 97 ==9C53 8 D 2D39B3, <3@ :;R;<4=8:3 H@3== 8:;8 92 :9= ;<< H;28 D 2&9432D3 :3 5;D34 5;>3 ?:3<3 :3 ? @54 :;B3 8 C3;< 8:3 =8<3== &8:3 C;8853 ;24 79H:8 < C;C56 5 =3 @24 92832492H 8 D 73 @ :97=35& ?98:8:3 53&8 ?92H ;24 <3=8 <3 8:3 &9H:8 ?:32 :9= D 553;H@3=: @54 C3 =@&&9D932856 :@7C534, @D:;5;2 ? @54 2 8 :;B3 C332 @8=943 8:3 =D 3 &8:3 54 7;2A= =35&9=:; <943,

3==93<3= 7;<D:92H @ &< 7 8:3 3;=8 D;73 92 =9H:8 &8:3 ;29;<4= 92 8:3 3;<56 7 <292H, 3 ;8 2D3 43 5 634 :9= ?: 53 ;<76 ;24 ;4B;2D34 92 C;8853 ;<<;6 B3< 8:3 5;92, 2 &< 28 ?;= ;=59H:8 D;B;5<6 =D<332 &;=;553A= D:;==3@<= S 23G8 D;73 @8 2A= 49B9=9 2 43 5 634 8 8:3 <9H:8 ;24 3<53A= 49B9=9 2 ?98:, ;C;8:93<A= C<9H;43 8 8:3 53&8 &8:3 D @28<6.< ;4 ?:>:53;4= B3< 8:3 5;83;@ 8 ?;<4= 3492;43 9 3D , :3 7 3<9;5 %@;<4 : <=3 ;24 & 8 ;24 8:3 C@5> &9;=;553A= D;B;5<6 C<9H;43 ?3<3 92 <3=3<B3 C3:924 &:3 D328<3, 2 H38892H 23;<8:3 3237 6A= =989 2 3==9>3= = 249=D B3<34 8:3 8? :;5B3= &8:3 ;29=:;<76 ;24 8:3 C< ;4 H; ?:9D:5;6 C38?332 8:37, 9= 7924 ?;= ;8 2D3 7;43 @ K :3 < =34 8 D 28;92 @3=8;?98:;=7;55 & <D3 ;24 8 &; @ 2 ;24 32B35 5;>3, ?98:8:3 <3=8 &:9= ;<76 C3& <3 8:3 ; 8;92.%323<;5 &;=8953 D @54 D 73 8 :9= ;94, :9= 3GV D355328 5;2 ?;= D;<<934 @8 8 8:3 53883< 8:;2>= 8 8:3 92D; ;D986 &@3=8;,

8 &;< 3;=8 &8:3 5;83;@ &/;543D@3B;= 5;6 ;2 9= 5;834 37 9232D3 8:3 7 @24 &2D592K 2 98 8:3 7;<=:;5 4<3?@ 8:3 H<3;83< ;<8 &:9= ;<89553<6 08?3286 H@2=P ?:9D:C3H;2 8 C;883< 5;>3A= &< 28 5923K 8:3 %;59D9;2 C;883<93= <3 5934 ;24 :354 8:39< ?2 8: @H: @82@7C3<34 C6 8? 8 23, :32 ;C;8:93<A= 39H:8

8:3<' :;5&' &'8:3' ;29=:' ;<<;6K'53;B92H'= 73' &' ;=;553)=' B;5<6' ;24' ;C;8:93<A=' C<9H;43'8 ' @<=@3'8:3'< @834'D < ='3'& <7 34'8:J*' ?: 53' &' :9=' <3 7 ;9292H'8< =' 92' ;'5923' C<92H92H' @ '8:3'<3=3<B3' &' 8:3' 7 3<9;5'%@;<4'8 ' 7 ;>3' 98=' D328<3' ?:953' @8 2'& <7 34'8:3' <9H:8' ?92H' ;24'8:3'8? ' C<9H;43=' &' 3<53'8:3'53&8,' @3=8;' @8V 2@7C3<34';24';88;D>34'4 ?2':9 ' ? @54':;B3'4 23'?9=3568 '<38X&3;8' ;24'8 '=33>'& <'=:3583<'92';24'C3:924'8:3'8 ?2'J&' 9 ' 3D '92':9=' 9 7 7 349;83'<3;<,' @8' :3' :;4' <3 ;<34';' 23?'=@< <9=3' & <'8:3' 323 7 6' ;=' 8:36'43=D32434' @ 2' :9 7'8:36'?3<3';=8 29=:34'8)'=33' :9=' &< 28'5923'8:3'39H:8'C;88;59 2=' ?:9D:'& <7 34'8:3'& @<8:'%;59D9;2' 49B9=9 2'& <7' 98=358' 928 ' &D 5@72=' &' ;88;D>' ;24' =5 ?56'D 7 7 32D3' 8 ' D59 7 C' 8:3' :955' ?98:'8:3' CX3D8' &' ;88;D>92H' 8:39<' <9H:8' ;24' D328<3,' 3;2?:953' @3=8;A=' :;24&@5' &' B;5<6' < 43' @8' 2' 8:3' 2 <8:3<2'324' &'8:3'5923';24'&355'@ 2'8:3'=>9<79=:3<=' &' @8 2)A=' 49B9=9 2' ?: 7'98'D:;=34'C;D>'8955'98' ?;=' 738' ;24'4<9B32' &&'C6'8:3' 8:<33'=J@;4< 2=' &'8:3' 7 3<9;5'%@;<4,

:3'@ .:9 'D:;<H3' &'8:3'& @<8:'%;59D9;2'49B9=9 2' ?;=';'&923'C@8' ;2'@883<56'@=353=='49= 5;6' &'D @<;H3,' :36'?3<3';88;D>92H'23;<56' 4 @C53'8:39<' ?2' 2@7C3<=' &'B9D8 <9 @=' 8< ='?:' @8&5;2>34' 8:37' 2'C 8:'?92H=';24'8 <3'8:37'8 ' 93D3='?98:';'D 2D328<9D'&9<3' &';<89553<6'8 '?:9D:'8:36'D @54'2 8'<3= 24,' :3'<3H97328=';8'3;D:' 324' &'8:3'5923'?3<3'= 2'C< >32'@ 'C@8'92'8:3'D328<3'8? 'C;88;59 2=' &' 9D>34' H<32;493<= ';D8@;556'D5 =34'?98:'8:3' <32D:' D; 8@<34' & @<'H@2=' &<8:3' 7 3<9;5'%@;<4' ';24'& <D34'C;D>'8:3'=@ <892H' 92&;28<6' &'8:3'=;73'D < =' & <' ;'=:' <8' = ;D3'8955' 3==93<3=':@<534' @ 2'8:37'8:3'8:<33'=J@;4< 2=' &'8:3'%@;<4. ;B;5<6'?:9D:'C< >3' 8:37';24'=?3 8'8:37'4 ?2':9 ';H;92,

3392H' :9=' ;88;D>' &;95' @3=8;' C;43' :9=' 5;=8' <3=3<B3'8:3' <;?' ;=8959;2';24' 3 23=3'53B93='<38<3;8'C3:924'8:3'<9B3<';24'8:3,'8 ?2' &' 3492;'43' 9 ' 3D ' ?:9D:'8:36'494'?98: @8' 7@D:'5 ==' D B3<34' 8 ' ;'D3<8;92'3G8328'C6'8:3'8? ' =897 9;2'C;88;59 2='8:3' 256' ;<8' &' @3=8;A=' ?2'& <D3'?:9D:'?;=3=<9 @=56'32H;H34,

:3'T <7 6' &' ;=8953A'8:3<3& <3':;4'2 '7 <3'8:;2' 'D;=@;5893='C@8'8:3'8? ' %;59D9;2'49B9=9 2=' :;4' =@&&3<34' :3;B956,' :36'53&8' C3:924'8:37' 2'8:3'&9354'23;<56',L##'43;4';24' B3<' ##' ? @2434' ?98:'= 73' $##' <9= 23<=,' :3'832'H@2=' &' 5;>3A=' ?92H' :;4';55' C332'D; 8@<34';24'?98:'8:37'=3B3<;5' ;9<=' &'D 5 @<=,' 2';44989 2

' 2';DD <4;2D3'?98:'8:3'@2?9=3' <;D89D3' <3B;9592H'92'7 =8' 2892328;5' ;<793=' 5;>3':;4'7;==34'8:3'H<32;493<',D 7 ;293=' N&';55':9=' 5923'<3H97328=' 928 '8? 'C;88;59 2=' '8 ';D8';=';'=353D8'<3=3<B3,

7 <3 8: ; 2 ; 8: @=; 24 &8: 3 %; 59D9; 2 <3D<@98= : ; 4 49= 3<=34 ; 24 D @54 2 8 C3 <; 55934, 58 H38: 3< 5; >3A= ; < 7 6 : ; 4 5 =8. B3< I ### 732, : 3 <32D: ; = 79H: 8 : ; B3 C332 3G 3D834 : ; 4 =@&&3<34 D 7 ; 9S; 89B356 598853K 8: 36 : ; 4 # > 95534 ; 24 I## ? @2434 ; DD <492H 8 6 S 8: 3< : 9=8 <9; 2= H9B3 3B32 = 7 ; 553< &9H@<3=,

1 B9H < @= @<=@98 79H: 8 : ; B3 4 23 7@D: &@<8: 3< : ; < 7 8 8: 3 43&3; 834 ; 29; <4=S C@8 3==93<3=A 732 : ; 4 C332 7 ; <D: 92H =92D3 8? 92 8: 3 7 <292H ; 24 &9H: 892H ; 55 8: < @H: 8: 3 7944; 6, : 36 ?3<3 7@D: &; 89H@34 ; 24 8: 39< D 7 7 ; 243< 494 2 8 <3== 8: 3 D: ; =3 &; < C36 24 8: 3 <9B3<, @8 8: 3 8 ?2 & 9 3D ? ; = =; D>34 &< 7 D355; < 8 H; <<38 ?98: 7@D: =5; 692H &2 2.D 7C; 8; 28= ; 24 @8<; H3= & ; >924= 0 ; &; D8 B3<6 49=D<3498; C53 8 8: 3 7 ;<=: ; 5 ?: D @54 : ; B3 =8 34 8: 3 5@243< : ; 4 : 3 D: =32,

: 3 43&3; 834 H323<; 5= 738 ; 598853 8 8: 3 ?3=8 &8: 3 C; 8853.&9354 ; 24 ; &83< ; C9883< ; 583<D; 89 2 92 ?: 9D: 5; >3 @=34 8: 3 5; 923=8 ? <4= ; C @8 @3=8; A= H323<; 5= : 9 ; <834 92 ?<; 8:, : 3 %; 59D9; 2= <389<34 C6 8: 3 ?; 6 8: 36 : ; 4 D 73 ; 24 X 9234 8: 3 49B9=9 2 ?: 9D: : ; 4 C332 53&8 C3: 924 8: <33 4; 6= C3& <3 8: 36 8: 32 ?328 C; D> 8 8: 3 ; ==3= ; C B3 =8 <H; ; C; 24 292H ; D 2=943<; C53 ; 7 @28 &=8 <3= ; 8 32; B3283, @3=8; 8 > 8: 3 ; <76 & ; =8953 8 3 2 <389<92H 2 8: 3 =8@<9; = <; 8: 3< 8: ; 2 2 %; 59D9; ,

3==93<3=A ?355.3; <234 B9D8 <6 ?; = D<3498; C53 8 : 97 =35& ; 24 : 9= 8< = C@8 8: 3 ?; 6 : ; 4 C332 7 ; 43 3; =6 & < : 97 C6 8: 3 ; =8 @2492H 8; D89D; 5 39 <= &8: 3 ; 8; 92.%323<; 5 & ; =8953, : 3 <; 2> ; 2D& &953 &8: 3 ; 29= : ; <76 : ; 4 2)<3; = 2 8 C3 ; = : ; 734 &8: 39< D 24@D8K 98 ?; = 8: 39< D 7 7 ; 243< ?: = : @54 : ; B3 C5@= : 34 ; 8 8: 3 <3D>53== ?; 6 92 ?: 9D: : 3 : ; 4 9D<9&9D34 : 9= ?95592H 8< =, ; 24534 C6 @3=8; 8: 3 C3=8 ; 226 92 8: 3 ? <54 79H: 8 : ; B3 C332 43&3; 834 C6 92&3<9 < 2@7C3<=,

: 3 =8<; 83H9D; 5 <3=@58= &8: 3 C; 8853 &9 3D ?3<3 H<3; 8 ; 24 &; <.<3; D: 92H, 55 4; 2H3< &8: 3 D@8892H &8: 3 D 7 7@29D; 89 2= C38?332 ; 4<94 ; 24 ; 6 223 ?; = ; B3<834 : 24 ; 53 2 : 9= 7924 =38 ; 8 <3=8 2 8: 9= 928 D @54 2 ?; ==3<8 8: ; 8 @ 28A= =989 2 92 24; 5@=9; ?; = : 32D3& <8: 8: 3 256 : ; R; <4 @= 928 92 : 9= H<3; 8 =D: 373 &92B; =9 2 8 ? @54 D53; <56 C3 ; cB3<6 5 2H 89 73 C3& <3 8: 3 ; <76 &%; 59D9; ? @54 ; H; 92 4; <3 8 8; >3 8: 3 &&32=9B3 ; 24 73; 2?: 953 ; 4<94 ?; = =; &3 ; 24 8: 3 ; 8837 8 8 D 2J@3< @8: 3<2

* : 32 8@; <8 ; 24 /; @H: ; 2 ; ==34 8: < @H: 3492; 92 3 837C3<8: 36 ?3<3 H9B32 7 ; 26 : ; << ?92H 438; 95= C6 8: 3 5 D; 5 ; @8: <9893=,

* 33 :9= <37; <>= 92 8: 3 4 D@7328 &-@56 $.); ; + ! L$$I,

;92' D @54' C3' <3=@7 34' ?98: @8' ;26' &3;<' &' 9283<<@ 89 2,' 3=.' =93<3=' ;&83<' =@D:' ;' B9D8 <6' ?;=' =8< 2H' 32 @H:' 2 8' 8 ' 9*3J@9<3' ;26' &@<8:3<' <392& <D3 7 328=' &9* <;' 8:3' D328<;5' <3=3<B3' 92' ;24' ;C @8' 8:3' D; 98;5,

:3' 7 =8' CB9 @=' *<3=@58' &' 9 ' 3D ' ?;=' 8:;8' 092H' - =3 :' ?;=' 2 ?' ;C53' 8 ' < D334' 2' :9=' ?;6' 8 ' ;4<94 ' ;24' 8 ' 3283<' 8:3' D986' 9 ' 8<9@7 :,' 953<' <3D39B92H' 8:3' : 7;H3' &' 8: ' ;29=:' 2 8;C53=' ;8' ;6 223' ;24' 2 7 92;892H' ;' 7 929=8<6' :3' :;4' D< ==34' 8:3' &< 2893<' 2' -@56' ",' @8' :3' :;4' C332' C59H34' 8 ' =8 ' =: <8' ;8' @<H =' 8955' 3==93<3=' =: @54' :;B3' C3;832' &&' 8:3' ;88;D>' &' 5;>3' ;24' @3=8;K' :9=' <3=32D3' 8:3<3' :;4' C332' 7 =8' 92D 2B329328' 8 ' 8:3' 7;<=:;5' ?:' :;4' C332' & <D34' 8 ' 53;B3' C3:924' & <' :9=' < 83D89 2' 36A=' B383<;2' C<9H;43' &' @8 2A=' 49B9=9 2' ?:9D:' :3' ? @54' H5;456' :;B3' 8;>3 ' @8' 8 ' 8:3' ; < ;D:92H' C;8853,

/:32' 8:3' 23?=' &' 3492;' 43' 9 ' 3D ' ;<<9B34' ;8' @9WH =' 8:3' @=@< 3<' <3=@7 34' :9=' 7;<D:' 2' ;4<94 ' =8955' 3=D <834' C6' 36A=' 8< =,' 3' 8<;B35534' C6' =:<8' =8;H3=' =8 92H' ;8' 3B3<6' 8 ?2' 8 ' C3' D 7 597 32834' C6' <35@D8;28' 7;H9=8<;83=' ;24' D < <;89 2=' ?:' 4;<34' 2 8' <3&@=3' 8:39<' : 7;H3,' :3' @5;D3' 3B3<6?:3<3' =:@8' 98=35&' @ ' 92' 98=' :@=3=' 92' =9532' < 83=8,' - =3 :A=' =8;83' 328<6' 928 ' ;4<94' 2' -@56' $#' ?;=' 8:3' D@5 7 92;892H' 928' &' 8:3' 7 35;2D:56' &;<D3,' 3' ;==34' 8:< @H:' 8:3' =8<338=' ?98:' ;' C<9559;28' =8;&&' C38?332' 5 2H' 5923=' &' <399D:' C;6 238=' ;24' ;7 94' 8:3' C5;<3' &' 79:8;<6' 7@=9D,' @8' 2 8' ;' ;29;<4' ?;=' 8 ' C3' =332' 3GD3 8' 8:3' :;24&@5' &' D @<893<=' ;24' &&9D9;5=' ?:' ' :;4' ;DD3 834' 8:3' 23?' H B3<2 7 328,' :3' ;883 7 8=' &' 8:3' <32D:' 8 ' < 4@D3' ;' 43 7 2=8<;89 2' <' 3B32' 8 ' H38' 8:3' 8 ?2' 43D <;834' :;4' 7 38' ?98:' ;==9B3' 49= C34932D3,' 9>3' :;<53=' &' @=8<9;' ?:32' :3' 3283<34' ;4<94' 92' #' - =3 :' 2; ;<83' 7 9H:8' :;B3' 3GD5;9 7 34' 8:;8' :3' D @54' =33' I' ;' D @<8' C@8' 2 ' 3 53' A' ;C @8' :9 7,' @8' :3' ;&&3D834' 2 8' 8 ' 2 89D3' 8:3' 49=7;5' =943' &' 8:3' =98@;V 89 2' ;==@7 34' ;2' 3G;HH3<;834' @<C;2986' ;24' :3; 34' D 7 597 328=' ;24' <3&3<7 328' 2' 8:3' =7;55' =3D89 2' &' < ' ?:' ' ;4:3<34' 8' :97,'

:3' @=@< 3<' :;4' <3= 5B34' 8 ' H9B3' :9 7 =35&;=' 7@D:' ;=' ==9C53' 8:3' ;9<' &' ;' ;29=:' 2;89 2;5' >92H,' &' ;' ' :9=' 3; 598;2' D @<8)' :3' :;4' C< @H:8' ?98:' :97' 256' 23' 3<= 2;H3' :9=' &;B @<983' ;59H26' ?: 7' :3' :;4' 7;43' @>3' &' ;2' %3<7;2 ,' :3' <3=8' &' :9=' :@=3V : 54' ?;=' D 7 =34' &' 2 C53=' ;24' &&9D9;5=' D: =32' &< 7' ;7 2H' 8:3' :3<4' ?:9D:' :;4' C ?34' C3& <3' :97' ;8' ;6 223,' :3<3' ?3<3' ;7 2H' 8:37' =3B3<;5' &' 8:3' 5;83' ;<89=;2=' &' 092H. 3<492;24' &' ?: 7

L ' ' ' E: - '<F
= 73' : ;4' &<;2>56' = 54' 8:37=35B3=' 8 ' :9=' =@ 5;283<' ?:953' 8:3<='
059>3' 8:3' @>3' &' 2&;28;4 P' ?3<3' 256'5 >92H' & <' ;2' <8@2986'
8 ';C=D 24' ?:32'98' 79H:8' <3=328'98=35&,' :3'&9<=8'59=8' &'7929=83<='
?;=';5=' &@55' &'2;73='8:;8'?3<3';5<3;46'?355'>2 ?2'92'8:3' ;29=:'
C@<3;@D<;D6,' &'8:3'D;C9238' &' 3<492;24' / ' 3B; =' 8:3'
7929=83<' &' <39H2' &&;9<=' A ;<<955';8'8:3' ;<' &&9D3' 92@35;';8'
8:3'7929=8<6' &'-@=89D3'?3<3'C;=3'32 @H:'8 ';DD3 8'8:3'D 2892@;89 2'
&'8:39<' ?3<='C6'8:3'@=@9 3<,' <J@9X '?:'8 >'8:3' 3D<38;<6V
=:9 ' &' 8;83'?;=';2' 54'B9D897' &'% 4 6A='?:';:;4' 2D3'C3& <3'
:354' &&9D3' @243<' :;<53=' /,' ;R;<<34 '?:'?;=' 5;D34';8'8:3'
7929=8<6' &' ;<923'?;=' 3<:;=' 8:3' 7 =8' 49=892H@9=:34' &&9D3<'92'
8:3' ;29=:'2;B6,' @8'-=3 :'07;H9234'8:;8':9='H<3;83=8'=8< >3'
J&' 59D6'?;='8:3';' 9287328';=' 7929=83<' &'8:3' 283<9 <' &'%;= ;<
43'-B355;<9 ='8:3' 7 =8' < 792328';7 2H'8:3' ;29=:'59C3<;5='
?: =3'<3 @8;89 2'& <'?9=4 7';24' ;8<9 89=7';;4'D =8':97';'5 2H'
97 <9= 27328'4@<92H'8:3'4;6=' &'8:3' <92D3' &'8:3' 3;D3,' :3'
943;'?;='92H329 @='C@8'8:3' 5;2'& <'=8<32H8:3292H'8:3' 7929=8<6'
&;9534'& <'-B3 ;2 ='@883<56'<3&@=34'8 '8;>3' &&9D3';5 2H'?98:';'
D59J@3' &'8<;98 <=';24'92'8:3'D;C9238' &';'@=@< 3<,' 38'3B32'?98:V
@8':97'8:3'C 46' &'D 7893<=';24' &&9D9;5='?: 7'-=3 :'D 553D834'
?;='&;<'7 <3'<3= 3D8;C53'&< 7'8:39<':9H:'=8;89 2';24' 54'3G 3<932D3'
8:;2' 79H:8' :;B3' C332' 3G 3D834) ;'&;D8' B3<6' 49=H<;D3&@5' 8 '8:3'
;29=:'C@<3;@D<;8=,
2'53==' 8< @C5 @=' 897 3='';24'?98:';' 7 <3'53H9897;83'89853'8 '8:3'
D< ?2'-=3 :' 2; ;<83' 79H:8' :;B3' 7;43';'B3<6'8 53<;C53'>92H,'
3'?;='D3<8;9256';'&;<' 7 <3'? <8:6' DD@ ;28' &'8:3'8:< 23'8:;2'
;26' &'8:3'79=3<;C53' ;29=:' @<C 2=K' C@8':3'?;=' 2 8' &'8:3'
=8@&&' &'?:9D:'=@DD3==&995'@=@< 3<=';<3'7;43,' 3'?;=';'?3;>'?355.'
9283289 234' 7;2'2 8'43=898@83' &';':3;<8' <';'D 2=D932D3K ;24'
;=':3'H<;4@;556'<3;59R34';55'8:3'3B95='8:;8':3':;4'C< @H:8' 2' ;92'
C6':9=' 955.<3H@5;834' ;7C989 2':3'H<3?'53==' ;24'53==' =;89=&934'?98:'
:9=' =989 2';=':9=' C< 8:3<A=' 8 5,' 3' 7;43'5 2H' ;24'@289<92H'
3&& <8='8 'D 2D959;83'8:3' ;29;<4='C6';2'@2,?;B3<92H';&&;C95986';24'
795423=='D 7C923 '?98:';'=8<9D8';883289 2'8 ' @C59D' C@=923==,'
2& <8@2;8356';' ':9=' 3&& <8=.?3<3' D @283<;D834' C6':9=' C< 8:3<A='
:;<=:23==';24'C6'8:3'H<334';24'B9 532D3' &'8:3' <32D:'H323<;5='
B3<'?: 7':3'D @54'23B3<'H;92';26'D 28< 5,' 8'9=';'H<3;8'83=897 26'
92';9='&;B @<'8:;8'8:3' ;29=:' 3 53'43= 9=34'<;8:3<'8:;2':;834'
:97K'8:39<'7 <3'B9 5328';297 =986'?;='<3=3<B34'& <' ; 53 2,' 9='
2 792;5'=@CX3D8=';H<334'8 '<3H;<4':97';=';':@7 < @='D:;<;D83<.K

8:36 5;@H:34 ;8 :9= 5 2H :;<;2H@3= 92 ?>9D: 3; 598;2 :<;=3= ?3<3 8 &832 79G34 ?98:8:3 = 2 < @= ;=8959;2K 8:36 92=9=834 8:;8 :3 ?;= C5924 & 23 363 ?:9D: 494 2 8 :; 32 8 C3 8:3 D;=3,' :36 = >3 &:97 ;= ;5?;6= DD@ 934 ?98: 8:3 53;=@<3= &8:3 8;C53 ;24 ?98: 79=D355;23 @= ;7 @<= ;DD@=;89 2= & <?:9D: 8:3<3 ?;= ;' B3<6 =59H:8 & @24;89 2 & &;D8,' :36 92=9=834 ,8:;8 :3 ?;= ;' D ?;<4 ;:4 ;' =5@HH;<4 89853= ?:9D: :3 ' &;< &< 7 73<98V 92H,' 3 ?;= 8:36 =;94 3< 38@;556 : 4?92>34 C;&&534 ;24 C@55934 ;59>3 C6 :9=) H323<;5= :9= 7929=83<= ;24 :9=*79=8<3==3=,' @8 8:36 23B3< <3;556 :;834 :97 ;& ;D8 ?:9D: D 2=943<92H 8:3 7;223< & :9= ;DD3==9 2 7@=8 C3 :354 8 C3 B3<6 7@D: 8 :9= D<3498,

@8 8:3 &9<=8 =8;6 & 8:3 T 28<@=9B3 092H ;= 8:3 ;29;9)4= D;5534 :97 92 :9= D; 98;5 ?;= 8 C3 B3<6 =: <8,' 3 :;4 256 ;<<9B34 8:3<3 2 -@56 $#K :9= & <7;5 < D5;7;89 2 8 > 5;D3 2 8:3 8?3286.& @<8:,' 3 :;4 :;<456 =388534 4 ?2 92 8:3 < 6;5 ;5;D3 ;24 D 7 732D34 ;' 49= @83 ?98:' 8:3 3&&383 T @2D95 & ;=8953A ?:9D:'?98:'@23G 3D834 C=892;D6<3&@=34 8 ?=3;<8:3 ;8:' 8 5@7;24 8 8:3 D 2=898@89 2 &;6 223 B:32 :3 ?;= C59H34 8 8;>3 8 &59H:8,' 2 8:3 8?3286.& @<8:' <@7 @<= C3H;2 8 C3 D@<<328 92 ; 94 8:;8 ;' H<3;8 49=;=83< :;4 8;>32 5;D3 92 24;5@=9;' ;24 8:;8 @ 28A= ;<76 :;4 C332 ;229:95;834,' 2 8:3 8?3286.39H:8:3 23?= ?;= D 2&9<734 92 3B3<6 ;<89D@5;<,' 2 @H@=8 8:3 092H 8:3 D @<8 ;24 8:3 $# ###' <32D:8< = ?:9D:' =8955 <37;9234 92 ;24 ;C @8 8:3 D; 98;5 7;<D:34 @8 C6 8:3 2 <8:3<2< ;4 ;24 8 >8:39<?;6 8 ?;<4= 8:3 C< ,' :9= <38<3;8 ?;= 8:3 <3=@58 &;' H<3;8 D @2D95 &?;<92 ?:9D:8:3 323<H389D ;4B9D3 &;B;<6?: ?9=:34 8 &9H:8 23 7 <3 C;8853 92 &< 28 &8:3 D; 98;5 ?98:' ; 8:3 & <D3= 8:;8 D @54 C3 D 2V D328<;834 ?;= B3<<@534 C6 8:3 092H ;24 8:3 7;X <986 &8:3 H323<;5=,' T 'D @2D95 &?;<23B3< &9H:8=A ;= :;= C332 7 =8 8<@56 C=3<B34

M#M]' / ' - ' '

8:3' 7 @28;92=' /3435' H 8'92' 8 @D:' ?98:' @ 28' ?: ' :;4' :98:3<8' 2' 2 89D3' &':9=' ; < ;D:'W-@23'$],

2=83;4' &'53;B92H'8:3'23?56';<<9B34'49B9=9 2'8 'H@;<4'8:3' ;==3='@ 28'D;5534'98'4 ?2'8 'X 92' :97'92'8:3'B;5536' &'8:3'%@;4;5V J@9B9<,' 98:'8:3';==9=8;2D3' &'/3435A='8< ='3'D 2=943<34':97=35&'=8< 2H' 32 @H:'8 ' 7;>3' :3;4';H;92=8'8:3' ;29=:' ;<76' @243<' ;=8;2 ='?:9D:'?;='D 7 732D92H'8 '4<;?'23;<'8 ' 24@X;<,' 033 92H':9=' <9H92;5' & <D3';8'8:;8'8 ?2 ;'H<3;8'D328<3' &'< ;4='C@8';' 7;5;<9 @='= 8'?: =3': = 98;5='?3<3';:A3;46'D< ?434'?98:'N##'=9D>' :3' 5;D34'/3435';8' ;6532';' 5;D3'=9G8332'7953='&@<8:3<'3;=8'C@8'=8955'92'8:3' 5;92'8: @H:'8:3'& 8.:955='&'8:3' 93<<;' <32;'C3H92'8 '<9=3'X@=8'C3:924'98,' ';==3<8':97=35&';24'=8<9>3'83<< <'928'8:3'92=@<H328='@ 28'<43<34'23'&'/3435A=',C<9H;43='8 '7;>3';'& <D34'7;<D:'8 '-;32'8:3'D; 98;5'&';' < B92D3';24';'D 2=943<;C53'& D@='&'<3C3559 2,' :9='3G 34989 2'=D;883<34'8:3'5 D;5'53B93='8 >';24'=;D>34'-;32';24'8:32'<38@<234'92'=;&386'8 ';6532'W-@56'$.I],'

3;2?:953' ;=8;2 ='?;='4<;?2H'23;<K C3':;4'2 ?':;4';'7 28:'92''?:9D:'8 ' <H;29R3':9=';<76,' 9>3' 5;>3'92'%;59D9;':3':;4'@=34'8:3'<3D<@98=' &' 24;5@=9;'8 '&955'@ '8:3'H; ='92'8:3'43 53834'C;88;59 2=' &'8:3A'<3H@5;<';<76,' @8'53==' & <8@2;83'8:;2':9='D 553;H@3'92'8:3'2 <8:':3':;4'2 8'C332';C53'8 ' <3B328'8:3'-@28;='&' 3B9553';24'%<;2;4;'&< 7'D<3;892H';'2@7C3<' &'23?'B 5@2833<'D < ='';24':;4'C332' C59H34'8 '92D < <;83'8:37'92':9='&9354';<76'T ?:3<3'8:36'?3<3';' = @<D3' &'?3;>23==' <;8:3<' 8:;2' &'=8<32H8:,' 9='8 8;5'& <D3'?;='= 73'II ###' <'ILh### 732' &'?: 7'$N##'?3<3'D;B;5<6'& <'92'8:9=';<7':3'?;='&;<'C3883<' < B9434'8:;2'?;='8:3';<76'&'8:3' <8:,' :3'?: 53'?;='<H;29R34'92)& @<'49B9=9 2='@243<' %323<;5=' 3492H' @ 9H26' 359G'-23='0;2'<9=:' &&9D3<'92'= 983'&':9=' 35=:'2;73P';24';' 32;,' 2';44989 2'8:3<3'?;='&5692H'C<9H;43' &'23?'53B93='@243<' 5 235' <@R. @<H3 2'?:9D:'?;='@=:34'& <?;<4';5 2H'8:3'< 8='&'8:3'7 @28;92='8'3C2.'=943<;C53'49=8;2D3'92'&< 28' &'8:3'7;92'C 46K'98'?;='<43<34'8':;<;==' @ 28A='2 <8:3<2'&5;2>';24'8'D@8':9='D 77@29D;89 2='?98:' ;6532';24' ;' ;< 592;,

98:' N###' <' ###' 732'92D5@492H'23;<56'I ##'D;B;5<6' @ 28' @H:8'8':;B3'C332';C53'8'D 28;92' ;=8;2 ='9&'2 8'8 'C3;8':97,' :3' < <89 2' &':9='& <D3='8'8:=3' &'8:3'32376'?;='2 8' 7@D:'53==' 8:;2'8:;8'?:9D:' 3==9&3<3=':;4' ==3==34';8' 3492;'43' 9' 3D,' @8'@2& <8@2;8356'& <':97=35&';24':9=

;@A‘ ‘ $ $ ‘ ‘ ‘ E:I $$

7;=83<‘ @ 28‘ ?;=‘ &;<‘ &< 7‘ ==3==92H‘ 8:3‘ C 5423==‘ ;24‘ 8:3‘ =>955‘ &‘ 8:3‘ 7;<=:;5,‘ 6‘ ;==@ 7 92H‘ 2 8‘ ;‘ B9H < @=‘ &&32=9B3‘ C@8‘ ;‘ 89 7 94‘ 43&32=9B3‘ ;5 2H‘ ;‘ < 8<;D834‘ &< 28‘ :3‘ 8:<3?‘ ;?;6‘ :9=‘ D:;2D3=,‘ :3‘ 5923‘ ?:9D:‘ :3‘ :;4‘ <3= 5B34‘ 8 ‘ : 54‘ ?;=‘ 8:;8‘ &‘ 8:3‘ 3<‘ %@;4;5J@9B9<‘ &< 7‘ 24@X;<‘ 8 ‘ 8:3‘ 23G8‘ ;==;H3)@ ‘ 8:3‘ <9B3<‘ 8:3‘ &39<6‘ &‘ 32H9C;<‘ 39H:8‘ 7953=‘ &< 7‘ ;6532,‘ :9=‘ H;B3‘ ;‘ &< 28‘ &‘ = 7 3‘ &9&8332‘ 7953=‘ 8 ‘ : 54K C@8‘ @2& <8@2;8356‘ 3B32‘ ?:32‘ 4<;?2‘ @8‘ 8 ‘ 8955=‘ 532H8:‘ 8:3‘ 8?‘ 49B9=9 2=‘ &‘ ;<C @‘ ;24‘ /3435‘ 494‘ 2 8‘ D B3<‘ ;‘ 8:3‘ ==9C53‘ 5923=‘ &‘ ;88;D>‘ ?:9D:‘ ;=8;2 =‘ 7 9H:8‘ ;4 8,‘ 3‘ 7 9H:8‘ =89 ‘ 7;<D:‘ ;=8‘ 8:37‘ ;24‘ D@8‘ 8:37‘ &&‘ &< 7‘ 8:3‘ 43&953=‘ &‘ 8:3‘ <32;‘ C6‘ H 92H‘ ;‘ 598853‘ :9H:3<‘ @ ‘ 8:3‘ <9B3<‘ ;24‘ D< ==92H‘ 98‘ 23;<‘ ;3R;‘ ;24‘ C34;,‘ @ 28‘ ?;=‘ ?< 2H‘ 8 ‘ 8;>3‘ 8:9=‘ 5923‘ &‘ 43&32D3‘ ;8)‘ ;55K @253==‘ :3‘ ?;=‘ <3 ;<34‘ 8 ‘ ;88;D>‘ 8:3‘ ;<7 6‘ &‘ 24;5@=9;‘ 92‘ 8:3‘ 32‘ :3‘ =:@54‘ :;B3‘ <389<34‘ 8 ‘ ;6532‘ <‘ 8 ‘ ;‘ ;< 592;‘ ?:3<3‘ :3‘ ? @54‘ :;B3‘ C332‘ ;C53‘ 8 ‘ D B3<‘ 8:3‘ ;==3=‘ & <‘ ;=‘ 5 2H‘ ;=‘ :3‘ 7 9H:8‘ D: =3 ‘ =92D3‘ :3‘ D @54‘ 2 8‘ :;B3‘ :;4‘ 398:3<‘ &‘ :9=‘ &5;2>=‘ 8@<234,

3;2?:953‘ :3‘ ?;=‘ H<;89&934‘ 8 ‘ :3;<‘ 8:;8‘ &@<8:3<‘ <392& <D3 7 328=‘ ?3<3‘ C392H‘ =328‘ 8 ‘ :9 7,‘ 2<3;= 2;C56‘ 49=J@93834‘ ;C @8‘ 24;5@=9;‘ ;=X ; 53 2‘ 8:@H:8‘ ;B;<6‘ < D33434‘ 8 ‘ =324‘ ;‘ 8:9<4‘ 49B9=9 2‘ 8 ‘ ;94‘ @ 28,‘ :9=‘ ?;=‘ % C3<8A=‘ 8:3‘ =3D 24‘ &. 2D36A=‘ D < =K 98‘ =8;<834‘ &< 7‘ ;4<94‘ 2 8‘ J@983‘ D 7 5383‘ ;24‘ 53&8‘ =8< 2H‘ 438;D:V 7 328=‘ ;8‘ 8:3‘ 7 <3‘ 9 7 <8;28‘ 8 ?2=‘ ;5 2H‘ 8:3‘ < ;4‘ 8:< @H:‘ ;‘ ;2D:;,‘ :@H:‘ <9H92;556‘ =3B328332‘ C;88;59 2=‘ =8< 2H‘ 98‘ <3;D:34‘ 8:3,‘ 2 <8:3<2‘ =5 3‘ &‘ 8:3‘ 93<<;‘ <32;‘ ?98:‘ 256‘ 832,‘ ;B;<6‘ :;4‘ 2 8‘ 92832434‘ 98‘ 8 ‘ H ‘ ;26‘ &@<8:3<K :3‘ :;4‘ 8 54‘ @ 28‘ 8:;8‘ 98‘ ?;=‘ 8 ‘ C3‘ @=34‘ 8 ‘ D B3<‘ :9=‘ <38<3;8 ‘ 9&‘;‘ <38<3;8‘ C3D;7 3‘ 23D3==;<6 ‘ C@8‘ 2 8‘ & <‘ ;D89B3‘ 3<;89 2=‘ 92‘ 24;5@=9;,‘ @8‘ 49=<3H;<492H‘ 8:3=3‘ 49<3D89 2=‘ @ 28‘ D 7 7;2434‘ % C3<8‘ 8 ‘ D< ==‘ 8:3‘ <32;‘ ;24‘ D 7 3‘ 4 ?2‘ 8 ‘ X 92‘ /3435K 8:9=‘ :3‘ 494‘ C<92H92H‘ ?98:‘ :9 7‘ 2923‘ T‘ < B9=9 2;5‘ C;88;59 2=‘ ‘A‘ ;24‘ 8:3.‘ =3D 24‘ < B9=9 2;5‘ <3H9 7 328‘ &‘ D@9&;==93<=‘ 3<:;=‘ ###‘ 7 32‘ 92‘ ;55,‘ :3<3‘ ?3<3‘ 2 ?‘ B3<‘ $# ###‘ <32D:‘ 2‘ 8:3‘ = @8:‘ =943‘ &‘ 8:3‘ 7 @28;92 ‘ ;‘ & <D3‘ ;7 56‘ =@&&9D9328‘ 8 ‘ 43;5‘ ?98:‘ ;=8;2 =‘ ;24‘ :9=‘ I I ###‘ 24;5@=9;2=‘ W-@56‘],‘ @8

* &‘ % C3<8A=‘ 49B9=9 2‘ 8:3‘ 8:‘ < B9=9 2;5‘ <3H9 7 328‘ ;24‘ 8:3‘ <9=:‘ C;88;59 2‘ 23B3<‘ 7;<D:34‘ @8:,‘ :3‘ N8:‘ 8:‘ ;24‘ M8:‘ < B9=9 2;5‘ <3H9 7 328= 8?35B3‘ C;88;59 2= & <7 34‘ 8:3‘ D 5@7 2‘ S 8:36‘ 53&8‘ 23‘ C;88;59 2‘ ;8‘ ;4<943X =‘ ;2 8:3<‘ ;8‘ ;2R;2;<3=,‘ 23‘ 7 <3‘ <37;9234‘ 92‘ 8:3‘ ;==‘ ;8‘ 8:3‘ @3<8 ‘ 435‘ 36‘ S 2923‘ ;24‘ 8:3‘ D@9<;==93<=‘ 0 ## =8< 2HP 43=D32434‘ 928 ‘ 8:3‘ 5;92=,‘ 33‘ & <438;95=‘ ;C;26A=‘ : ? $‘ ,‘ N,

8:36 ?3<3 =8955 B94356 =D;883<34, @ 28 5;6 ;8 24@X;< ?98: ",### < # ### =;C<3= ;24 C;6 238=S / 3435 ?;= =9G8332 7953= ;?;6 ;8 ;6532 ?98: N ### 732 &?: 7 $ ### @243< %323<;5 9H3<. 35;9< ?3<3 @=:34 &<?;<4 8 8:3 &3<<6 &2H9C;<, % C3<8 ?;= ;8 ; ;< 592; ;8 8:3 & 8 &8:3 ;==3= ?98: &9B3 C;88;59 2= ;C @8 :97 ;24 ;=9G8: 32D;7 34 2 8:3 =@7 798 &8:3 43&953, 3 :;4 =328 &<?;<4 8:3 <37;9243< &:9= 49B9=9 2 08:3 & @<C;88;59 2= &8:3 =9G8: < B9=9 2;5 <3H9732 8 ;24 :;5&8:3 =3D 24 < B9=9 2;5 D@9<;==93<=P 8 X 92 @ 28 ;8 24@X;< = 8:;8 :3 :;4 2 8 7 <3 8:;2 $ M### C;6 238= ;24 I #D;B;5<6 ?98: :97, ;=8;&9 = 73;2?:953 :;4 C< @H:8 @ :9= ?: 53 ;<76 ?98: 8:3 3GD3 89 2 &8:3 &5692H D < = &<@R. @<H3 2 8 ;5923 D5 =3 92 &< 28 & 24@X;<K 8:3 :3;4= &:9= D 5@72= ?3<3 ;8 <X 2;;24 <X 2955; 256 &9B3 7953= &< 7 @ 28,\ 2 -@56 8:3 ;29=: H323<;5= :354 ;D @2D95 &?;<;8 <D@2;;24 4<3? @8 8:39< 5;2 & 3<;89 2=, 92D3 8:3 3237 6 =337348 C3 =89 J@93=D328 8:36 <3= 5B34 8 .;88;D> :97 92 :9= D: =32 =989 2 C3:924 8:3 <9B3<, ;=8;2 = 92 3<= 2 ?98: 8:3 49B9=9 2= &- 23= ;24 ; 32; $,### =8< 2H @243<8 > 8 >33 @ 28 37 5 634 C6 43:B3<92H ;2 ;88;D> 2 24@X;<? :9D: :3 494 2 8 928324 8 <3== :73 @253== :3 H 8 H 4 23?= &< 7 ;:9= =3D 24 ;24 8:9<4 D 5@72=, 3;2?:953 =9G 7953= @ 8:3 <9B3< @ 9H26 ?98: 8:3 =3D 24 49B9=9 2 23;<56 M ### =8< 2H ?;= 8 ;8837 8 8 D< == 8:3 %@;V 4;5J@9B9< C6 8:3 & <4 &/955; @3B;, ;=856 3492H ?98: 8:3 &99A=8 49B9=9 2 8:3 C3=8 ;24 7 =8 2@73< @= &8:3 ?: 53 ;<76 #,### =8< 2H ?;= 8 =39R3 8:3 &3<<6 &32H9C;< ;24 7 ;<D: 2 ;6532, 3<3 :3 ?;= *8 C3 X 9234 C6 @ 9H26 ;24 8:3 8? D < = ?3<3 8:32 8 &;55 @ 2 8:3 <3;< &@ 28A= =989 2 ;8 24@X;< ?:953 ;=8;2 = 6 C3=38892H 98 92 &< 28, 8 ?;= 8:39< ;97 8 =@<< @24 ;24 D; 8@<3 8:3 ?: 53 &8:3 <32D: 49B9=9 2 9&98= H323<;5 494 2 8 7 B3 ;?;6 C3& <3 8:3 32D9<D592H 7 B3 7328 ?;= D 7 5383, 3;2?:953 8:3 &5692H D 5@72 &<@R. @<H3 2 ;C @8 M ### =8< 2H ?;= 8 D< == 8:3 %@;4;5J@9B9< C35 ?' 24@X;< 8:< ?98=35&928 8:3 7 @28;92= 92 8:3 2 <8: ;24 X 92 :;24= ?98: 3492H ;24 @ 9H26 C3:924 8:3 C;D> &@ 28, :9= 5;2 8: @H: @589 7;8356 D< ?234 ?98: =@DD3== ?;= 3<95 @= 92 8:3 :9H:3=8 43H<33, @8 ;=8;2 = :;4 =3<9 @=56 @243<3=89 7;834 8:3 8 8;5& <D3 & @ 28 ;= ?3 ;= 79=D 2D39B34 :9= 3G;D8 =989 2, 3 ?;= @243< 8:3 97 <3==9 2 8:;8 8:3 7;92 C 46 &8:3 <32D: :9D: :3 494 2 8 D;5D@5;83 ;8 7 <3 8:;2 $ ### < L ### 732

M#' ' ' ' ' E: - ';?

?;=' D 2D328<;834' ;8' 24@X;<' ;24' 8:;8' 8:3<3' ?3<3' 2 8:92H' 7 <3' 8:;2' ?3;>' 438;D:7328=' ;8' 32H9C;<' ;6532' <' ;' ;< 592;,' :3=3' 3'97;H9234' D @54'2 8' =8;24' C3& <3' 3492H' ;24' ?:32' 8:3' 5;883<' :;4' 2D3' H 8.8' 8:3' 2 <8:32('C;2>' &'8:3' <9B3<' :3' ? @54' 3;=956' D53;<' 8:3' ?;6' & <' @ 9H26' 8' D< ==,' @8' ;=' ;' 7;883<' &' &;D8' /3435 :;4' N ###' 732' ;8' 32H9C;<' ;24' ;6532' ?98:' I ###' 7 <3' @243<' % C3<8' ?98:92' ;'=: <8' 7;<D:' &':97,' &'8:3' ;29=:' 5;2' :;4' C332' @2D8@;556' D;<<934' @8' 3492H'=: @54' :;B3' =@&&3<34' ;' =3B3<3' D:3D>' ;8' 8:3' :;24=' &'8:3=3'8? ' 49B9=9 2=' ?:953' @ 28' D @54'3;=956' :;B3'43;58'?98:' ;=8;2 =';8' 24@X;<,' @ 9H26'9&':3' H 8';D< ==' ;8'/9 ;' @3B;' ?:953' 8:3' 49B9=9 2=' 2'3;D:'=943' &':97' ?3<3' C3;832' ' ? @54' :;B3' C332' 92' ;'B3<6' D 7 < 79=34' =989 2' ;24' D @54'2 8' :;B3' 4;<34' 8' @=:' & <?;<4,' @8' 92' 8:9=' D@<9 @=' D;7 ;9H2' 8:3' < C;C53' 23B3<' :; 3234' ;24' 3B3<68:92H' ?328' 92' 8:3' 7,=8' @2& <3=332' &;=:9 2,

2' -@56' I' 8:3' ;29=:' 5;2' C3H;2' 8' C3' D;<<934' @8' 3492H' 7;<D:92H' & <' 32H9C;<' ;24' @ 9H26'& <' /955;' @3B;,' ;=8;2 =' >3 8' J@938' ;8' <X 29 ;' 8955' :9=' C3@832;28=' =: @54' :;B3' <3;D:34' 8:3' 928=' ?:9D:'8:36' ?3<3' 8' ';88;D>,' 2' 8:3' =;73' 4;6' @ 28' <3D39B34'8:3'23?=' &' 2D36A=' <3 @5=3' C3& <3' /;532D9;' ';24' 7;43' @ ':9=' 7924'8:;8' :3' 7@=8' 3<=3B3<3' 92' :9=' 43&32=9B3';8898@43' ?98:@8' 7;>92H' ;26' ;8837 8'8' 7;==' :9=' 8< =' ;24' &;55' @ 2' 8:3' 32376' 92' :9=' &< 28'>' -@=8';8'8:3' 7 7328' ?:32' :9=' 3237 93=' ?3<3' @8892H' 8:3' H;73'928' ':9=' :;24='C6'49B9492H'8:37=35B3=' 928' 8:<33' D 5@72=' =3 ;<;834' &< 7' 3;D:' 8:3<' C6' D 2=943<;C53' H; =' :3' <3592J@9=:34' 3B3<6' 9283289 2' &'8;>92H' ;4B;28;H3' &'8:39<' &;@58,

2' -@56' L' 3492H' ; 3;<34'92' &< 28' &'8:3' &3<<6' &' 327C;<' ;24' @=:34' C;D>' C36 24' 8:3' <9B3<' 8:3' @85692H' 9D>38=' &' 9H3<.' 35;9<A=' 438;D:7328,' 3' 7;43' 2' &@<8:3<' ;8837 8' 8' <3==' 8:3' <32D:' C@8' @ 28' 49=J@93834' ;C @8' ;2' ;88;D>' 2' 8:9=' 928' <43<34' % C3<8' 8' C<92H' 4 ?2' 8:3' <37;92=' &' :9=' 49B9=9 2' 8' ;6532,' 8' X 92' /3435,' 3G8' 7 <292H' 8:3' ;29;<4=' C3H;2' 8' 43B35' 8:39<' ?: 53' 5;2K ;=8;2 =' ; 3;<34' 2' ;' 5 2H' &< 28' =983' 24@X;<' ;24' 7;43' ;' H<3;8' 437 2=8<;89 2' ;H;92=8' 8:3' =989 2' &' @ 28' @=92H' ;55' :9=' ;<89553<6'-&894 =: ?92H' :3;4=' &' D 5@72=' ;8' =3B3<;5' 928=,' @ 9H26' D;73' 4 ?2' 8' 8:3' <9B3<

* @ 28' D 2=943<34' 8:;8' ;B;<6A=' 9283289 2' ?;=' 8' =8 ' ;55' &&32=9B3' 7 B37328=' ?:;83B3<K 2' 3' H32 <;5.32.D:3& 73'&;98'328<3B 9<' J@3'2 @=' ;@< 2=' 3@8.3893' 'H;<43<' 2 8<3' =989 2' X@=J@A;' D3' J@3' /;532D3' 38' ;<;H ==3' = 9328' = @79=3=K 0 @ 28'8' /3435' -@56' IP,

M##M]‘ ‘ ‘ % ‘ M

;8‘ /955;‘ @3B;‘ ;24‘ H 8‘32H;H34‘ ?98:‘ ;‘ 438;D:7328‘ ?:9D:‘ ?;=‘ =328‘ @8‘&< 7‘ 24@X;<‘8‘:54‘8:3‘&<4‘‘, 3492H‘7;>92H‘;.=3<9 @=‘ ;8837 8‘8‘ @=:‘& <?;<4‘D< ==34‘8:3‘%@;4;5J@9B9<‘;8‘ 32H9C;<‘ ;24‘;88;D>34‘ 9H3<. 35;9<,‘ @8‘/3435‘D;73‘@)‘8‘8:3‘=@ <8‘ &‘ :9=‘593@832;28‘;24‘?:32‘8:3‘ ?9==‘H323<;5‘& @24‘J@983‘D 28<;<6‘8‘ :9=‘3G 3D8;89 2‘;‘?: 53‘49B9=9 2‘43 5 634‘;H;92=8‘599 7‘:3‘D3;=34‘ 8 E‘ <3==‘:9=‘;4B;2D3‘;24‘<389<34‘ 2D3‘7 <3‘C36 24‘8:3‘<9B3<,

8:92H‘43D9=9B3‘:;4‘638‘:; 3234K‘C@8‘8:3‘23G8‘4;6‘?;=‘8‘C3‘ &;<‘7 <3‘97 <8;28,‘ :3‘ 3<;89 2=‘ 3234‘?98:‘8?‘H< ==‘&;@58=‘ 7;43‘C6‘8:3‘ <32D:K @ 28‘:;4‘C332‘=‘7@D:‘97 <3==34‘?98:‘ 8:3‘437 2=8<;89 2‘7;43‘;H;92=8‘599 7‘C6‘ ;=8;2 =‘8:;8‘:3‘X@4H34‘ :97=35&‘: 353==56‘ @82@7C3<34‘8:3‘ 24@X;<‘;24‘=328‘8‘/3435‘& <‘ <392& <D37328=,‘ 3‘C;43‘::2‘=324‘;‘C;88;59 2‘ <‘8? ‘ <‘3B32‘ ;‘?: 53‘C<9H;43‘9&‘8:3‘&<D3‘8:;8‘:3‘:;4‘& @H:8‘;8‘ 32H9C;<‘ =337 34‘?3;>‘;24‘@23283< <9=92H‘ :9=‘?;=‘;2‘3<< <‘& <‘ ;=8;2 =‘ 256‘ @82@7C3<34‘8:3‘ <32D:‘;8‘ 24@X;<‘C6‘8? ‘ <‘8:<33‘8: @=;24‘ 732‘;24‘?;=2 8‘<3;556‘8‘C3‘&3;<34,‘ @8‘/3435‘7;43‘;‘? <=3‘ =59 K‘43= 9=92H‘ 3492H‘ B3<7@D:‘:3‘)7;<D:34‘ 2‘ ;6532‘2 8‘?98:)‘ 23‘C<9H;43‘C@8‘?98:‘:9=‘?: 53‘49B9=9 2‘=;B3‘8:3‘ <9H92;5‘438;D:V 7328‘ &‘8? ‘C;88;59 2=‘@243<‘ 9H3<. 35;9<‘?:9D:‘<37;9234‘8‘?;8D:‘ 32H9C;<,‘ 8;<892H‘;8‘ 7942 9H:8‘:3‘<3;D:34‘ 24@X;<‘;8‘8? ‘ 2‘ 8:3‘;&83<2 2‘ &‘8:3‘=9G83328:‘8‘&924‘8:;8‘ ;=8;2 =‘:;4‘4 23‘2‘ 7 <3‘8:;2‘<3 3;8‘:9=‘437 2=8<;89 2‘ &‘8:3‘ <3B9 @=‘4;6‘;24‘:;4‘ C332‘3;=956‘:354‘C;D>,‘ <@R. @<H3 2A=‘53B93=‘?:9D:‘8:3‘ ;29=:‘ H323<;5‘:;4‘ @=:34‘ B3<‘8:3‘<9B3<‘C35 ?‘ 24@X;<‘:;4‘<3D39B34‘;‘ =:;<‘<3 @5=3‘?:32‘8:36‘8<934‘8‘7 53=8‘ @ 28A=‘&5;2>,‘ @ 9H26‘ :;4‘7;43‘;2‘3B32‘&33C53<‘=: ?‘8:;2‘:9=‘D:93&‘;8‘8:3‘& <4‘ &‘/955;‘ @3B;‘;24‘:;4‘2 8‘ ;==34‘8:3‘%@;4;5J@9B9<,

@8‘ 3492H‘2‘8:3‘7 <292H‘ &‘8:3‘=9G83328:‘:;4‘? >32‘@‘8‘ @23G 3D834‘B9H @<,‘ 3‘:;4‘& <434‘8:3‘<9B3<‘23;< 32H9C;<‘;24‘ &;5532‘ 2‘ 9H39A. 35;9<A=‘438;D5973 28‘:& <‘8:3‘=3D 24‘8973,‘ ;<4‘ <3==34‘8:3‘ <32D:‘C<9H;493<‘:;4‘=328‘& <‘=@DD @<‘8‘ ;6532‘ ?:98:3<‘% C3<8‘:;4‘7 B34‘4 ?2‘?:32‘/3435‘7;<D:34‘& <‘ 24@X;<,‘ :3‘23?56‘;<<9B34‘H323<;5‘D;73‘J@9D>56‘8‘8:3‘;94‘ &‘8:3‘D 7V < 79=34‘438;D:7328‘C@8‘:3‘?;=‘B3<6‘?3;>‘& <‘:3‘:;4‘53&8‘ ;‘C;88;59 2‘;8‘ ;‘ ;< 592;‘;24‘=328‘;2 8:3<‘?98:‘;‘=J@;4< 2‘ &‘D@9<;==93<=‘8‘ 92;<3=‘8‘H@;<4‘;H;92=8‘;‘<@7 @<34‘7 B37328‘ &‘8:3‘ ;29;9)4=‘;5 2H‘8:3‘ 3<‘%@;4;5J@9B9<,‘ 3‘256‘C< @H:8‘ ?98:‘:97‘8:<33‘C;88;59 2=‘;24‘$##‘D;B;5<6‘;24‘8:9=‘?;=2 8‘

* @ 28‘8‘/3435‘3B3292H‘&‘-@56‘N,

M$' ' ' ' ' W-@9 B5

32 @H:' 8 ' D 28;92' 3492H,' :3' L ###' 732' &' 8:3' 8? ' <32D:' 438;D:7328=' ?3<3' @82@7C3<34' C6' 7 <3' 8:;2' 8? ' 8 .' 23$ 8:36' =@&&3<34' ;' 8: < @H:' 43&3;8' ;24' % C3<8' ?;=' 7 <8;556' ? @2434,' 9=' C<9H;493<' @& @<' ?:' 8 >' B3<' 8:3' D 7 7;24' &355' C;D>' 2' ;6532' 39H:8' 7953=' 8' 8:3' <3;<,' 3G8' 7 <292H' 8: @H:' 2 8' <3==34' C6' 3492H' :3' <389<34' 8 ?;<4=' ;' ;< 592;' 8 ' <3B328' :97=35&' C392H' D@8' &&' &< 7)8:3' ;==3=' & <' :3' D<349834' ;' &;5=3' <@7 @<' 8:;8' 8:3' ;29;<4=' ?3<3' 438;D:92H' 8< =' C6' ?;6' &' 92;<3=' 8 ' =39R3' 8:3' 3= 32;' 3<< =,

@ 28' :3;<4' &' % C3<8A=' 43&3;8' 2' 8:3' 3B3292H' &' 8:3' =9G83328:,' 8' 43<;2H34' ;55' :9=' 5;2=' & <' 98' =: ?34' :97' 8:;8' 8:3' 3237 6' ?3<3' 2 8' 7;==34' 92' &< 28' &' 24@X;<' ;=' :3' =@ =34' C@8' :;4' ;' 5;<H3' & <D3' &;<@ ' 8:3' <9B3<,' ? ' D @<=3=' ?3<3' 32' 8 ' :97 398:3<' 8 ' 7;<D:' 2' ;6532' ?98:' :9=' ?:' 53' ;<76' 92' <43<' 8 ' ;88;D>' 3492H' ;24' 8 ' <3 32' 8:3' D 7 7@29D;89 2=' ?98:' ;' ;< 592;' ;24' 8:3' ;==3=' ' <' 8 ' &;55' @ 2' ;=8;2 =' ;24' 8:3' 8< =' 92' :9=' 97 7349;83' &< 28,' 2' 3283< <9=92H' & D3<' ? @54' < C;C56' :;B3' 8;>32' 8:3' 5;883<' ;583<2;89B3' ;24' D @54' 2 8' :;B3' &;9534' &' =@DD3==' & <' 8:3' ?: 53' <32D:' ;<76' 92' 24;5@=9;' =;B3' 8:3' 8< =' &' 35;9<' ;24' @& @<' ?;=' 2 ?' D 2D328<;834' ;8' 24@X;<' ;24' 2 8' 53==' 8:;2' ###' C;6 238=' ;24' I ###' =;C<3=' ?3<3' ;B;95;C53' & <' ;2' ;88;D>' 2' ;=8;2 =A' $ ###' 732 ,' B32' 9&' @ 9H26' X 9234' :9=' D:93&' 8:3' <32D:' 8B @54' :;B3' ;57 =8' ;2' 3J@;5986' 92' 2@7C3<=' ;24' ;' H<3;8' =@ 3<9 <986' 92' D;B;5<6' ;24' H@2=,' :3<3' D;22 8' C3' 8:3' =59H:83=8' 4 @C8' 8:;8' 8:3' ;29;<4=

' @ 28A=';B;95;C53'& <D3';8'8:9=' 7 7328'D 2=9=834' &'8:3'& 55 ?92H'8< =,' :3'2@7C3<=' H9B32' ;<3' 8:39<' <9H92;5' =8<32H8:' &< 7' ?:9D:' 434@D89 2=' 7@=8' &'D @<=3'C3' 7;43' K

2&;28<6 ;<C @A=' 9B9=9 2' K

' &' L8:' 3H9 2' &' 3=3<B3'08:<33'C;88=,P I #ML

;' 3<8=' ' H96X=' 3H97328'0 23'C;88,P' , #"

' ' ;<923=' &'8:3'%@;<4'0 23';:;88,P NI$

;223893<A=' ĥI<4' 3H9 2' &' 3=3<B3'08?' 'C;88=,P' $#

' <9H;43' Ó%;<43'43' ;<9='08?' 'C;88=,P LNL

D:<;7 7A=' <9H;43 ?9=' <3H97328=' &' 3492H' ;24' <3@G'0& @<' C;8X=,P

/3435)=' 9B9=9 2' K

92= 8A=' Ó 8:' 3H9 2' &' 3=3<B3'08:<33'C;88=,P' , , , , $N"

<9H;43' É I<4' ?9=' 3H97328,,,

M#M]' / A ' . ' MI

? @54' : ; B&3' =@&&3<34' ; ' 43&3 ; 8 ' ; 24' 8 : 32' 98' ? @54' : ; B3' C332' ==9C53')' 8 ' 3G 35' 3492H' &< 7 ' ; 6532' ?98 : @8' ; 26' 4 ; 2H3<' &' 9283<&3<32D3' &< 7 ' 8 : 3<' J@ ; <83<=,

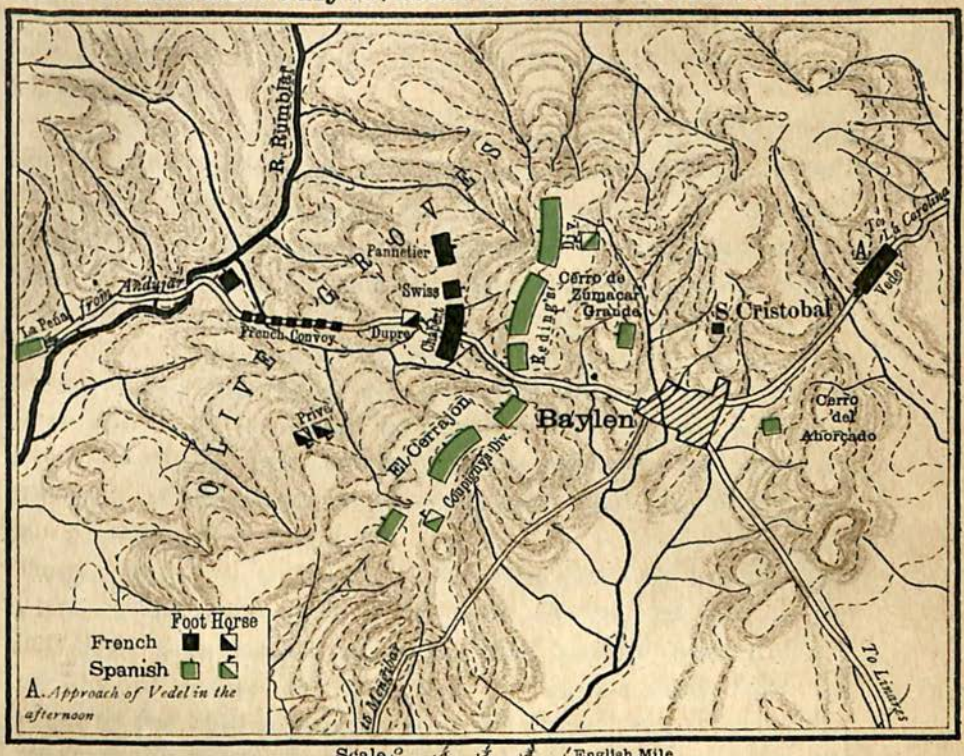
@8 ' 92' ; ' 7 7328' &' 3B95' 92= 9< ; 89 2 ' @ 28' D : =3' 8 ' 43 <9B3' : 9 7 =35&' &' 8 : 3' ; 4B ; 28 ; H3' &' : ; B92H' < ; D89D ; 556' : 9=' ? : 53' ; < 7 6' D 2D328< ; 834' 2' 23' = 8 ' ; 24' 4383< 7 9234' 8 ' D 6' 8 : 3' 3<< <' &' 8 : 3' ; 29 ; <4=' C6' = 598892H' : 9=' & <D3' 928 ' 8 ? ' 3J@ ; 5' : ; 5B3=,' 3' <3= 5B34' 8 ' <38 ; 92' : 9=' 43&32=9B3' =989 2' 92' &< 28' &' 24 : X ; < ' ; 24' 8 ' >33 ' 8 : 3<3' : 9=' <9H92 ; 5' & <D3 ; <C @A=' 92& ; 28<6' ; 24' <3=9 ; A=' : <=3,' @8' / 3435. ? 98 : ' : 9=' ?2' 732 ' 8 : 3' & @<' C ; 88 ; 59 2=' &< 7 ' % C3<8A=' 49B9=9 2' ? : 9D : ' ?3<3' ; 8' 24@X ; < ' ; 24' N##' D ; B ; 5<6 ' ? ; =' =328' &&' 8 ' ; 6532 ' ? : 3<3' : 3' ? ; =' 49<3D834' 8 ' < ; 556' 8 : 3' C3 ; 832' 8< =' &' @& @<' ; 24' 9H3<. 35 ; 9< ' ; 24' 8 : 32' 8 ' &; 55' @ 2' 3492H' ; 24' D : ; =3' : 9 7' C ; D>' C36 24' 8 : 3' %@ ; 4 ; 5J@9B9< ,

2' 8 : 3' 7 <292H ' 8 : 3<3& <3 ' &' - @56' ' / 3435' =38' @8' ?98 : ' = 7 3' N ###' 732' ; 24' 7 ; <D : 34' 8 ' ; 6532,' <<9B92H' 8 : 3<3' : 3' & @24' 8 : ; 8' @& @<' : ; 4' 3B ; D@ ; 834' 8 : 3' 5 ; D3 ' ; 24' : ; 4' : @<<934' 2' 8 ' ; ' ; < 592 ; ' 2' 8 : 3' &; 5=3' : 6 8 : 3=9=' 8 : ; 8' 3492H' : ; 4' @= : 34' ; =8' : 9 7 ' 8 ' =39R3' 8 : 3' ; ==3=,' =' ;' 7 ; 883<' &' & ; D8' 8 : 3' ; 29 ; <4' : ; 4' 4 23' 2 8 : 92H' &' 8 : 3' >924K ; &83<' : 9=' =@DD3==' ; 8' 32H9C ; < ' : 3' : ; 4' =9 7 56' <389<34' 8 ' : 9=' D ; 7 ' C6' 8 : 3' <9B3< ' ; 24' H9B32' : 9=' 732' 8 ? 3286.' & @<' : @<=A' <3=8,' 8' ? ; =' ;' =8< ; 2H3' ? ; 6' 8 ' 37 5 6' 8 : 3' 4 ; 6' ; &83<' ;' B9D8 <6 C@8' : 9=' J@93=D32D3' D : ; 2D34' 8 ' : ; B3' 8 : 3' 7 =8' & <8@2 ; 83' ; B ; 5<6 <3=9 ; A=' 9B9=9 2' K

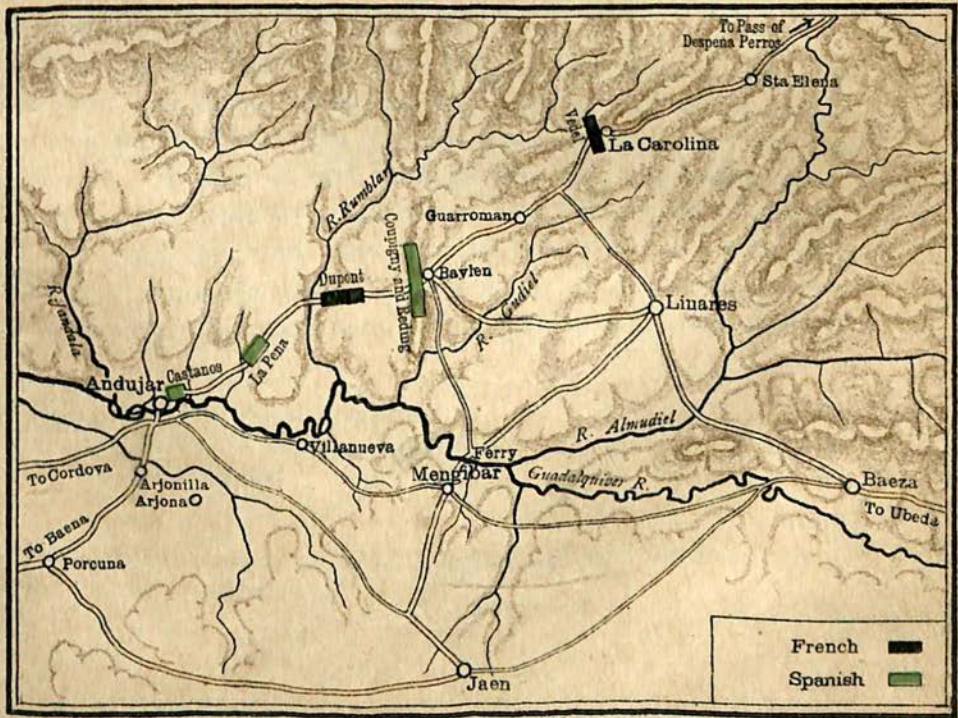
<9B4A=' 0 =8' < B9=9 2 ; 5' <; H 2=' , M

<9H ; 43' 0 $24' 4 988 ,,,

Battle of **BAYLEN** July 19, 1808. at the moment of DUPONT'S third attack.



Part of **ANDALUSIA**, between Andujar and the Passes. July 19. 1808.



To face page 128.

8< =.?3<3' 89<34' @8' ?98:' 8? ' 29H:8' 7;<D:3=K' 8:3<3' ?3<3' 2 ' =@ 593=' &'& 4' 8 ' C3' H 8' ;26?:3<3' C@8' ;8' ;' ;9A4592;';24':3' 43D9434'8:;8':3' 7@=8':;58'& <';8'53;=8'8?35B3': @<=' C3& <3'<38@<292H' 8 'X 92' @ 28,

3;2?:953' 2' 8:3' 7 9A292H' &'8:3' 39H:83328:' 3492HA;'" ##' 732' &'?: 7' #' ?3<3'D;B;5<6' :;4' C332'X 9234'C6' @ 9H<96';24' 8:3' =3D 24' 24;5@=9;2' 49B9=9 2' ?:9D:';7 @2834' 8 ' I#0:& 8' ;24' ##': <=3,' 4B;2D92H'&< 7' 32H9C;<'8 ';88;D>' ;6532'8:36' & @24' 8 ' 8:39<' =@< <9=3' 8:;8'8:3' 5;D3' ?;=' @2 DD@ 934K' /3435A=' <3;<H@;<4' :;4'53&8'98' 2'8:3' <3B9 @=';&83<2 2,' 3492H'92832434' 8 ' 7;<D:' 2' 24@X;<'&< 7'8:3' <3;<' 2'8:3' 23G8'4;6'C392H'@243<' 8:3' &@55' C3593&'8:;8' /3435' ?;=' =8955' ?98:' @ 28' ;24' 8:;8'8:3' 8< =' ?:9D:';:;4'<389<34' 2' ;' ;< 592;'?3<3' 256'8:3' &<;H7328=' &'% C3<8A=' & <D3,' <' ;=8;95 =';24' :9=' D 553;H@3=':;4'4<;?2'@ ' 8:39<' 5;2' &' 3<;89 2=' 2'8:3' :6 8:3=9=' 8:;8'8:3' 32376' ?3<3' =8955'D 2D328<;834';8' 24@X;<,'

3492H'8:3<3& <3'?98:'= 73' ###' 732'32D;7 34'92';24';C @8' ;6532' 92832492H'8 ' =8;<8' ;8' 4;6C<3;>' 2' -@56' "' ;24' 8 ' &;55' 2' @ 28' &< 7' C3:924' BB:953' :9=' D:93&';==;9534' :97' 92' &< 28,' @8' ;5<3;46' C3& <3' 8:3' =@2' ?;=' @ ' 7@=>38.=: 8=' &< 7' :9=' 9D>38=' 8 ' 8:3'?3=8' ;22 @2D34'8:;8'8:3' <32D:'?3<3'; < ;D:92H' &< 7'8:;8'49<3D89 2,' 8' ?;=' ?98:'8:3':3;4';24' 2 8'?98:'8:3'<3;<' &' @ 28A=' D 5@72'8:;8' ;=8;2 =A'&9<=8';24'=3D 24'49B9=9 2=' ?3<3' 8 ' :3' 32H;H34'& <'8:3'32376':;4'3B;D@;834' 24@X;9*';24'?;=' 92' &@55' 7;<D:'& <' ;6532,

2'8:3'29H:8' &'8:3'=3B3283328:' @ 28':;4'<3D39B34'8:3' 23?=' 8:;8' /3435':;4'3B;D@;834' ;6532';24'H 23' &&'8 '8:3' 2 <8:.3;=8' = '8:;8';'H; ' &'8:9<86'7953=' <'7 9.3' 2 ?'=3 ;<;834':97'&< 7':9=' 593@832;28,' 3':;4';8' &9<=8'C332' 53;=34'?98:'8:3' 7 B3';=' ?3' :;B3'=332K' C@8' <3=32856':3'H;8:3<34'&< 7'8:3'&;D8'8:;8' ;=8;2 =' 494' 2 8' <3==':97' C@8' 256';==;9534':97'?98:';' 49=8;28' ;24' 923&&3D89B3'D;22 2;43'8:;8'8:3' 7;92'=8<3=='&'8:3'D;7 ;9H2'?;=' 2 8' ;8' 24@X;<'C@8'35=3?:3<3,' :3' ;29=:';<76'?;=' =:9&892H

0IP' ;B;5<6'X < B9=9 2;5' <;H 2 = ,,,

MN E: - "

98=35& 3;=8?;<4 ;24 :3 8:3<3& <3 <3= 5B34 8:;8 :3 7@=8 4 8:3 =;73 8: @H: :3 ? @54 :;B3 8 ;C;24 2 :9= D:3<9=:34 &&32=9B3 =989 2 :9= 328<32D:7328= ;24 =@D: ;99 &:9= =@ 593= ;=;:3 D @542 8 D;<<6 ?98: :97 ;B92H 7;43 @ :9= 7924 8 43 ;<8 @ 28 ? @54 :;B3 4 23 ?9=356 8 =8;<8 ;8 2D3 9& :3 :;4 H 23 &&3;<56 2 8:3 7 <292H &8:3 39H:83328: :3 ? @54 :;B3 & @24 3492H ;24 @ 9H26 2 8 3=8;C59=:34 92 =989 2 ;8 ;6532 C@8 256 X@=8 ; < ;D:92H &< 7 8:3 = @8:; < C;C56 :3 79H:8 :;B3 C<@=:34 C6 8:39< &< 28 < 3B32 :;B3 H9B32 8:37 ;=3<9 @= D:3D> 9& :3 :;4 &;5532 2 8:37 ?98: @8 :3=98;89 2,

@8 8? D 2=943<;89 2= 924@D34 8:3 <32D: H323<;5 8 ? ;98 & < 8:3 4;<>23== ;24 8 ? ;=83 & @<8332 92B;5@;C53 : @<= ;8 24@X;<, :3 &9<=8 ?;= 8:;8 :3 : 34.C6 7 B92H ;8 29H:8 8 3=D; 3 8:3 2 89D3 & ;=8;2 = ? : 79H:8 :;B3 ;88;D>34 :97 9& :9= <38<3;8 ?9;= 32 ;24 @249=H@9=34, :3 =3D 24 ?;= 8:;8 :3 ?9=:34 8 D;<<6 &&:9= :3;B6 C;HH;H3 8<;92 2 8 256 :;4 :3 C38?332 N## ;24 M## =9D> 8 5 ;4 2 :9= ?;H 2= C@8 8:3<3 ?;= ;2 32 <7 @= 7;== & 8:3< 97 3497328; 7;9256 D 2=9=892H & 8:3 5@243< & <4 B;, <32D:;24 ;29=:?9823==3= @2983 92 =8;892H 8:;8 8:3 9283<792;C53 &953 & ## B3:9D53= ?:9D: D5 HH34 @ 28 = 7;<D: ?;= 8 ; B3<6 H<3;8 3G8328 5;432 ?98: =8 532 H 4=(24 98 ?;= 8:3 &&9D3<= <;8:3< 8:;2 8:3 732 ?: ?3<3 <3= 2=9C53 & < 8:9= 7;== & =5 ?.7 B92H 8<;2= <8,

8 ?;= 2 8 8:3<3& <3 8955 2923 92 8:3 3B3292H & 8:3 39H:83328: 8:;8 8:3 <32D: H323<;5 8: @H:8 &98 8 7 B3, &83< C;<<9D;492H ;24 C5 D>92H @ 8:3 C<94H3 & 24@X;< :34;<34 2 8 @=3 H@2V ?43< 8 43=8< 6 98 & < &3;< & < @=92H ;=8;2 = :3 =8;<834 2 :9= 29H:8 7;<D:, 3 :;4 ?98: :97 8:9<8332 C;88;59 2= &92&;28<6 ;24 & @< ;24 ;: ;5& <3H97328= & D;B;5<6 ?98: 8?3286.& @< H@2= 92 ;55 ;C @8 M ## & 8 = 5493<= ;24 $ ## : <=3 ;55 ?92H & < 8:3 5 ==3= ?:9D: 3 :;4 =@=8;9234 92 =9D> ;24 ? @2434 4@<92H 8:3 3;<593< :;=3= & 8:3 D;7 ;9H2 9= 7;9)D: ?;= ;<<;2H34 ;=

* H;92=8 ;C;26 43&32D3 & @ 28 2 8:9= 928 8:3<3 7@=8 C3 =38 8:3 97 <3==9 2 &;57 =8 3B3<6 <32D: 9823== &< 7 ; 53 2 4 ?2?;<4=,

* & 8:3 8< = ?:9D: ?3 : B3 <3D; 98@5;834, 2 ;H3 M$ 8:3<3 =8955 <37;9234 ?98: @ 28 8:3?: 53 & ;<C @= 92&;28<6 & @< & 8:3 &9B3 <3H9V 7328= & <3=9;= D;B;5<6 08:3 &9&8: :;4 7;<D:34 ?98: / 3435P : ;5& &8:3 $24 < B9=9 2;5 @9<;==93<= ;24 8:3 8? ?9== <3H97328= & 3492H ;24 <3@G, :3 <9H92;5 8 8;5 &8:3=3 D < = :;4 C332 I $ L, 593<3 <37;9234 ;C @8 ###'& <8:;8 2@7C3< D;2 C3 ;DD @2834 & < ;&83< 8:3 C;8853, 93 &&9D9;5 ;29=:49= ;8D: H;B3 M L @2? @@434 <9= 23<= ;24 $ ### D;=@;5893=,

& 55 ?=S : ;C3<8A=ʻ 92&;28<6ʻC<9H;43ʻ534ʻ8:3ʻB;2K 8:32ʻD;73ʻ8:3ʻ H<3;8ʻ2 2B 6K C3:924ʻ 98ʻ ?3<3ʻ 8:3ʻ & @<ʻ ?==ʻ C;88;59 2=ʻ @243<ʻ 5 235ʻ D:<;77ʻ*?:9D:ʻ :;4ʻ5;8356ʻC332ʻ92D < <;834ʻ?98:ʻ8:3ʻ <32D:ʻ;<76,ʻ :3=3ʻ;H;92ʻ?3<3ʻ& 55 ?34ʻC6ʻ ;223893<A=ʻ92&;28<6ʻ C<9H;43ʻ;24ʻ @ <3=ʻ8? ʻ <3H97328=ʻ & ʻ ʻ ʻ :3ʻ <3;<H@;<4ʻ& 55 ?34ʻ;8ʻ = 73ʻ49=8;2D3K 98ʻ?;=ʻD 7 =34ʻ &ʻ8? ʻ ;24ʻ;ʻ:;5&ʻ<3H97328=ʻ &ʻ:3;B6ʻD;B;5<6ʻ 5;D34ʻ@243<ʻ8:3ʻD 7 7;24ʻ &ʻ%323<;5ʻ <9B3ʻ?98:ʻ8:3ʻ 23ʻB383<;2ʻ92&;28<6ʻC;88;59 2ʻ?:9D:ʻ 8:3ʻ;<76ʻ ==3=34ʻ8:3ʻ ##ʻ ;<923=ʻ &ʻ8:3ʻ%@;<4ʻ;=ʻ;5=ʻ=9Gʻ ! * ʻ 4 ʻ 9D>34ʻ&< 7ʻ8:3ʻT53H9 2=ʻ &ʻ<3=3<B3,Aʻ < 7ʻ 8:3ʻ&;D8ʻ8:;8ʻ @ 28ʻ 5;D34ʻ:9=ʻC3=8ʻ8< =ʻ92ʻ8:9=ʻJ@;<83<ʻ98ʻ 9=ʻ3B94328ʻ8:;8ʻ:3ʻ3G 3D834ʻ8 ʻC3ʻ59H:892Hʻ;ʻ<3;<H@;<4ʻ;D89 2ʻ ?98:ʻ ;=8;2 =ʻ92ʻ @<=@98ʻ<;8:3<ʻ8:;2ʻ8 ʻD 73ʻ928 ʻD 28;D8ʻ?98:ʻ ;29=:ʻ8< =ʻ49A;?X9@ ʻ;D< ==ʻ:9=ʻ5923ʻ &ʻ7;<D:,ʻ 3ʻ?;=ʻ9H2 <;28ʻ 8:;8ʻ3492Hʻ;24ʻ @ 9H26ʻ:;4ʻDD@ 934ʻ;6532ʻ2ʻ8:3ʻ <3B9 @=ʻ 4;6 ;ʻ&;D8ʻ?:9D:ʻ=3;>=ʻC;456ʻ& <ʻ:9=ʻD;B;5<6K ?98:ʻ$ ##ʻ : <=37 32ʻ;C @8ʻ:97ʻ:3ʻ @H:8ʻ8 ʻ:;B3ʻ>2 ?2ʻ;55ʻ8:;8ʻ?;=ʻH 92Hʻ 2ʻ92ʻ:9=ʻ239H:C @<: 4,ʻ < C;C56ʻ8:3ʻ < B9=9 2;5ʻ<3H97328=ʻ ?:9D:ʻ&<7 34ʻ:9=ʻ?: 53ʻ7 97834ʻ&<D3ʻ?3<3ʻ92D;C53ʻ&ʻH 4ʻ ?<>ʻ92ʻ8:3ʻ?;6ʻ &ʻ=D @892Hʻ;24ʻ<3D 22;9==;2D3=,

:3ʻ598853ʻ8 ?2ʻ &ʻ;6532ʻ9=ʻ=98@;834ʻ92ʻ;ʻ=59H:8ʻ43 <3==9 2ʻ &ʻ;=;4453.C;D>34ʻ<;2H3ʻ &ʻ:955=ʻ?:9D:ʻ<@2=ʻ=@8:?;<4ʻ @8ʻ&< 7ʻ8:3ʻ 93<<;ʻ <32;,ʻ :3ʻ< ;4ʻ?:9D:ʻ53;4=ʻ8:<@H:ʻ98ʻ ;==3=ʻ B3<ʻ 8:3ʻ5 /)3=8, 928ʻ92ʻ8:3ʻ?;83<=:34ʻ;=ʻ9=ʻC@8ʻ2;8@<;5K 8ʻ8:3ʻ 2 <8:ʻ;24ʻ=@8:ʻ&ʻ8:3ʻ8 ?2ʻ8:3ʻ:39H:8=ʻ;<3ʻC3883<ʻ7;<>34K 8:36ʻ < X3D8ʻ=73?:;8ʻ 2ʻ3;D:ʻ&5;2>ʻ=ʻ8:;8ʻ8:3ʻ 5;D3ʻ9=ʻ=98@;834ʻ 92ʻ;ʻ=<8ʻ &ʻ;7 :98:3;8<3,ʻ :3ʻ:955ʻ8 ʻ8:3ʻ=@8:ʻ &ʻ ;6532ʻ9=ʻ D;5534ʻ8:3ʻ 3<<;X 2K 8: =3ʻ8 ʻ8:3ʻ2 <8:ʻ8:3ʻ 3<< ʻ435ʻQ@7;D;<ʻ :9D ʻ;24ʻ8:3ʻ 3<< ʻ435ʻQ@7;D;<ʻ%<;243,ʻ 55ʻ8:<33ʻ;<3ʻC;<3ʻ ;24ʻC;54ʻ?98: @8ʻ;ʻ=:<@Cʻ <ʻ8<33K 2 23ʻ &ʻ8:37ʻ;<3ʻ=833 ʻ8:39<ʻ 5 ?3<ʻ=5 3=ʻ;<3ʻJ@983ʻ=@98;C53ʻ& <ʻD;B;5<6ʻ? <>ʻ;24ʻ3B32ʻ8:39<ʻ < @2434ʻ=@7 798=ʻ;<3ʻ2 8ʻ92;DD3==9C53ʻ8 ʻ;ʻ: <=37;2,ʻ :3ʻH< @24ʻ 8ʻ8:3ʻ?3=8ʻ &ʻ8:37ʻ B3<ʻ?:9D:ʻ8:3ʻ <32D:ʻ::;4ʻ8 ʻ;4B;2D3ʻ9=V 32ʻ;24ʻ53B35ʻ& <ʻ;ʻ7953ʻ;24ʻ;ʻ:;5&K 8:32ʻ98ʻH< ?=ʻ7 <3ʻ9<<3H@5;<ʻ ;24ʻ9=ʻ8:9D>56ʻD B3<34ʻ?98:ʻ 59B3ʻH< B3=ʻ;24ʻ 8:3<ʻB3H38;89 2ʻ =ʻ8:;8ʻ;ʻ& <D3ʻ;4B;2D92Hʻ B3<ʻ98ʻ9=ʻ:94432ʻ&< 7ʻ8:3ʻB93?ʻ &ʻ;ʻ = 3D8;8 <ʻ 2ʻ8:3ʻ:955=ʻ;C B3ʻ ;6532ʻ8955ʻ98ʻD 73=ʻ @8ʻ928 ʻ8:3ʻ 32,ʻ :3ʻ? 434ʻH< 794ʻ9= ;C @8ʻ8? ʻ ;24ʻ;ʻ:;5&ʻ7953=ʻC< ;4K 98=ʻ ?3=83<2ʻ597 98ʻ9=ʻ8:3ʻ<;B923ʻ &ʻ;ʻ7 @28;92ʻ8 <<328ʻ8:3ʻ @7C5;<ʻ 0 <ʻ 3<<@7C5;<ʻ;=ʻ8:3ʻ;,= 9<;83.5 B92Hʻ 24;5@=9;2=ʻ= 7389 73=ʻD;55

;AA‘ ‘ $ $ ‘ ‘ ‘ E:- ;J

98P,‘ 593‘ < ;4‘ &< 7‘ 24@X;<‘ 8 ‘ ;6532‘ D< ==3=‘ 8:9=‘ =8<3;7‘ C6‘ ;‘ C<94H3‘ 8:3‘ 256‘ 5;D3‘ ?:3<3‘ ;<89553<6‘ D;2‘ ;==‘ 8:3‘ < D>6‘ C@8‘ 2 8‘ B3<6‘ 433 ‘ 43 <3==9 2,

8‘ 9=‘ 23D3==;<6‘ 8 ‘ =;6‘ ;‘ &3?‘ ? <4=‘ ;C @8‘ 8:3‘ H< @24‘ 3;=8?;<4‘ &< 7‘ ;6532‘ ;=‘ 8:9=‘ 8 ‘ ?;=‘ 2 8‘ @297 <8;28‘ 92‘ 8:3‘ 5;83<‘ :;=3=‘ &‘ 8:3‘ C;8853,‘ 3<3‘ 8:3‘ < ;4‘ ;==3=‘ 8:< @H:‘ ;‘ C< ;4‘ 43&953‘ <;8:3<‘ 8:;2‘ ;‘ 5;92,‘ 8‘ 9=‘ 3289<356‘ D 7 7;2434‘ C6‘ 8:3‘ :39H:8=‘ 2‘ 98=‘ 2 <8:3<2‘ =943‘ ?:3<3‘ 593=‘ 8:3‘ :9H:3=8‘ H9A @24‘ &‘ 8:3‘ 239H:C @<: 4‘ 8:3‘ 3<< ‘ 43‘ ;2‘ <9=8 C;5‘ D< ?234‘ C6‘ ;‘ <@9234‘ :3<798;H3,‘ :3‘ 49&&3<32D3‘ C38?332‘ 8:3‘ ; < ;D:‘ 8 ‘ ;6532‘ &< 7‘ 8:3‘ ?3=8‘ ;24‘ &< 7‘ 8:3‘ 3;=8‘ 9=‘ 8:;8‘ 2‘,8:3‘ & <73<‘ =943‘ 8:3‘ 8<;B3553<‘ <3;D:3=‘ 8:3‘ 8 ?2‘ 8:< @H:‘ ;‘ =379D9<D@5;<‘ ;7 :98:3;8<3‘ &‘ @ 5;24‘ ?:953‘ C6‘ 8:3‘ 5;883<‘ :3‘ D 73=‘ @ ‘ ;‘ /.=:; 34‘ B;5536‘ D@8‘ 8:< @H:‘ 8:3‘ :955=,

3492H‘ ;24‘ @ 9H26‘ ?3<3‘ = 73?:;8‘ =7A <9=34‘ C6‘ 8:3‘ C9D>3<‘ &‘ 7@=>38<6‘ ?:9D:‘ 8 54‘ 8:37‘ 8:;8‘ 8:3‘ <32D:‘ :;4‘ &;5532‘ @ 2‘ 8:39<‘ @8 =8=,‘ @8‘ & <8@2;8356‘ & <‘ 8:37‘ 8:39<‘ 8< =‘ ?3<3‘ ;5<3;46‘ H38892H‘ @243<‘ ;<7=‘ ;24‘ ?3<3‘ C9B @;D>92H‘ B3<‘ 8:3‘ 5 ?3<‘ =5 3=‘ &‘ 8:3‘ :955=‘ 92‘ ;‘ =989 2‘ ?:9D:‘ 7;43‘ 98‘ ==9C53‘ 8 ‘ 3G837 <9R3‘ ?98: @8‘ 7@D:‘ 49&&9D@586‘ ;‘ 5923‘ &‘ C;8853‘ D B3<92H‘ 8:3‘ 7;92‘ < ;4‘ ;24‘ 8:3‘ ; < ;D:3=‘ 8 ‘ ;6532,‘ :36‘ :;=8956‘ DD@ 934‘ 8:3‘ 5 ?‘ ;7 :98:3;8<3‘ &‘ :955=‘ 2 <8:‘ ;24‘ = @8:‘ &‘ 8:3‘ 8 ?2,‘ 3492H‘ 43 5 634‘ 8 ‘ 8:3‘ <9H:8‘ &‘ 8:3‘ < ;4‘ 2‘ 8:3,‘ :39H:8=‘ &‘ 8:3‘ 3<< ‘ 435‘ Q@7;D;<‘ :9D ‘ @ 9H26‘ 8 ‘ 98=‘ 53&8‘ 2‘ 8:3‘ 3<<;X 2,‘ 5939<‘ & <D3‘ ?;=‘ &‘;‘ B3<6‘ D 7 =983‘ = <8 =3B328332‘ C;88;59 2b‘ &‘ <3H@5;<=‘ =9G‘ &‘ 37C 4934‘ 795989;‘ &9B3‘ &‘ 23?‘ 24;5@=9;2‘ 53B93=,‘ :3‘ @298=‘ B;<934‘ : 353==56‘ 92‘ =9R3‘ = 73‘ :;B92H‘ ;=‘ &3?‘ ;‘ I #‘ 732‘ 8:3<=‘ ;=‘ 7;26‘ ;=‘ ###,‘ :36‘ D @54‘ ;5=‘ 49= =3‘ &‘ $##‘ D;B;5<6‘ ;24‘ =9G8332‘ H@2=,‘ :3‘ H<3;83<‘ ;<8‘ &‘ 8:3‘ 5;883<‘ ?3<3‘ 5;D34‘ 92‘ C;883<6‘ 2‘ 8:3‘ D328<;5‘ ;24‘ 5 ?3=8‘ ;<8‘ &‘ 8:3‘ =989 2‘ 2 <8:‘ ;24‘ = @8:‘ &‘ 8:3‘ :9H:‘ < ;4‘ ;24‘ 2 8‘ &;<‘ 92‘ &< 28‘ &‘ ;6532,‘ :3‘ 92&;28<6‘ & <734‘ ;‘ =379D9<D@5;<4 @C53‘ 5923K‘ 92‘ &< 28‘ ?3<3‘ 43 5 634‘ C;88;59 2=‘ 23;<‘ 8:3‘ & 8‘ &‘ 8:3‘ ;7 :98:3;8<3‘ &‘ :955=S‘ 92‘ <3;<‘ :9H:3<‘ @ ‘ 8:3‘ =5 3‘ <‘ D 2D3;534‘ C3:924‘ 8:3‘ D9)3=8‘ ?;=‘ ;‘ =3D 24‘ 5923‘ 92‘ D 5@72=‘ &‘ C;88;59 2=,‘ :3‘ D;B;5<6‘ ?3<3‘ 4<;?2‘ @ ‘ =8955‘ &@<8:3<8 ‘ 8:3‘ <3;<,‘ 92;5X6‘ ;=‘ ;‘ 23D3.==;26‘ <3D;@89 2‘ ;H;92=8‘ 8:3‘ ==9C53‘ ;<<9B;5‘ &‘ /343:‘ 2‘ 8:3‘ =D323‘ &9. 7‘ ;‘ ;9) 592;‘ 3492H‘ 5;D34‘ =3B32‘ C;88;59 2=‘ &;<‘ ;?;6‘ 8 ‘ 8:3‘ 3;=8‘ 2‘ 8:3‘ 8:3<‘ =943‘ &‘ ;6532‘ ?98:‘ D;B;5<6‘ 9D>38=‘ @8‘ 92‘ &< 28‘ 8 ‘ H9B3‘ 897356‘ 2 89D3‘ &‘ ;26‘ =9H2=‘ &‘ 8:3‘ 32376‘ 92‘ 8:9=‘ J@;<83<,‘ :3=3‘ I ##‘ 732‘ ?3<3‘ J99983‘ @8‘ &‘ 8:3‘ C;8853‘ ;=‘ 5 2H‘ ;=‘ @ 28‘ ?;=‘ 8:3‘ 256‘ 3237 6‘ 92‘ =9H:8,

3& <3' 98' ?;=' &@556' 4;659H:8' %323<;5' :;C3<8' ;24' :9=' C<9H;43' :;4' 8:<@=8' C;D>' 8:3' ;29=:' @8 =8=,' @8' 8:3' =8<32H8:' &' 8:3' 92=@<H328' ;<76' ?;=.' J@983' @2>2 ?2' 8 ' :97K 8:3' 7 <292H' 4@=>' =8955' 5;6' 92' 8:3' & 54=' &' 8:3' :955=' ';24' :3' 8: @H:8' 8:;8' :3' 79H:8' ==9C56' :;B3' 92' &< 28' &' :97' 2 8:92H' C@8' = 73' &5692H' D 5@72' &' 92=9H29&9D;28' =8<32H8:,' DD <492H56' ;&83<' ;55 ?92H' 8:3' ?: 53' &' :9=' C<9H;43' 8 ' D 73' @ ' :;C3<8' & <734' ;' =7;55' 5923' &' ;88;D>' C< @H:8' @ ' :9=' C;883<6';5 2H' 8:3' :9H:' < ;4' 8 ' 8:3' 7944453' &' 8:3' ;7 :98:3;8<3 ' C38?332' 8:3' : <2=' &' 8:3' ;29=:' =989 2 ' ;24' 7;43' ;' B9H < @=' @=:' & <?;<4,' 3' 3<;834' ;57 =8' 3289<356' 8 ' 8:3' = @8:' &' 8:3' < ;4 ' ?:3<3 ' =983' @ 9H26A=' 49B9=9 2 ' 8:3' :955' ?;=' 5 ?3D' ;24' 8:3' =5 3' H32853<' 8:;2' &@<8:3<' 2 <8:,

' 49=5 4H3' L ###' 732' ;24' 8?3286' H@2=' 92' =989 2' ?98:' I ###' 732' ;24' =9G' H@2=' ?;=' &' D @<=3' ;' 79598;<6' 97 ==9C95986,' @8' :;C3<8' :;4' 8:3' 3GD@=3' 8:;8' :3' 494' 2 8 ' ;24' D @54' 2 8 ' >2 ?' ?:;8' :3' ?;=' 4 92H,' 9=' ;8837 8' ?;=' &' D @<=3' 4 734' 8 ' &;95@<3K' :9=' C;883<6' ?;=' C5 ?2' 8 ' 93D3=' C6' 8:3' ;29=:' H@2=' ';D892H' &< 7' ;' D 2D328<9D' =989 2 ' 8:3' 7 7328' 8:;8' 98' 3234,' 9=' & @<' C;88;59 2=' ;&83<' @=:92H' C;D>' @ 9H26A=' =>9<79=:92H' 5923' & <' ;' &3?' :@24<34' 6;<4=' ?3<3' <3=32856' D:3D>34' C6' 8:3' <3=3<B3=' ?:9D:' 8:3' ;29;<4' =328' & <?;<4,' ;B92H' D 73' 8 ' ;' =8;24' 8:36' = 2' :;4' 8 ' <389<3 ';24' ?98:' :3;B6'5 ==,' :3' C<9H;43' 4<3?' C;D>' 8 ' 8:3' D B3<' &' 8:3' 59B3' H< B3=' C3:924' 98 ' 53;B92H' 8? ' 49=7 @2834' H@2=' @8' 92' 8:3' 32,

3:924' :;C3<8' 8:332 <7 @=' D 2B 6' ?;=' C5 D>92H' 8:3' ?;6';=' &;<' ,C;D>' ;=' 8:3' C<94H3' &' 8:3' @7C5;&,' 9B3' :@24<34' ?;H 2=' ?98:' 8:39<8?' <' &' @<' G32' ;93D3 '8 >' @ ' ?:32' =8<@2H' ;5 2H' 8:3' <;4 ' 7 <3' 8:;2' 8?' ;24' ;' :;5&' 7953=,' @ 28' ?:' < 43' @ ' ;8' 8:3' = @24' &' 8:3' D;22 2' ;24' 2 ?' D53;<56' =;?' 8:3' ;29=:' 5923' 4<;?2' @ ' 2' ;' &< 28' &' 8?' 7953=' 2 <8:' ;24' = @8:' &' 8:3' < ;4 ' <3;59R34' 8:;8' 8:9=' ?;=' 2 ' =>&<79=:' C@8' ;' 98D:34' C;8853,' 9=' ;D89 2' ?;=' H B3<234' C6' 8:3' &;D8' 8:;8' :3' 3B3<6' 7 7328' 3G 3D834' 8 ' :3;<' 8:3' H@2=' &' ;=8;2 =' 8:@243<92H' C3:924' :97 ' ;24' 8 ' &924' 8:;8' :3' ?;=' ;88;D>34' 92' <3;<' ;=' ?355';=' 92' &< 28,' 3' ;DD <492H56' <3= 5B34' 8 ' 4359B3<' ;' =3D 24' ;==;@58' ;=' J@9D>56' ;=' ==9C53 ' C3& <3' 8:9=' 3B95' D:;2D3' 79H:8' D 73' @ 2' :97,' 98:' = 73' 49&&9D@586' 8:3' ?9==' C;88;59 2=' @ <3=' C<9H;43' &' 59H:8' D;B;5<6' 324' <9B =' 4<;H 2=' @=:34' 8:39<' ?;6' ;=8' 8:3' D 2B 6' ;24' H 8' 928 ' 8:3' 32^' :36' ?3<3' 83<<9C56',89<34 ' :;B92H' 7;<D:34' ;55' 29H:8' ;24' D B3<34)&9&8332' 7953=' &' C;4' <;4 ' C@8' 8:39<' H323<;5' 8:<3?' 8:37' ;8' 2D3' 928 ' 8:3

"$' ' ' ' ' E: - ' "

8:3' =8<3; 7.C34=' ?:9D:' D< ==' 8:3' &9354' ?3<3' ;55' 4<934' @ ';24' 256';8' 8:3' @7C5;<' D @54' ;' 4<92>' C3' C8;9234,' 8' $ ###' 732' @8' &'8:3' <9H92;5' ###' ?:'T:;4' =8;<834' &< 7' 24@X;<' D @54' C3' H 8' 8 H38:3<'8 ' =3' ;'&33C53'&< 28'8 ' 3492H' ;24' @ 9H26,' 8' ' 256'C6' >33 92H' @ ' ;' =5 ?' ;<89553<6' &9<3'&< 7' 8:3' &3?' 93D3=' 8:;8' :;4A2 8' C332' =9532D34' <' 49=7 @2834'8:;8';26'=: ?' &'<3=9=8;2D3' D @54' &P3' 7;43,' /:32' 8:3' ;88;D>' &< 7' 8:3' <3;<' ?:9D:' ?;=' CB9 @=56' 97 32492H' =: @54' C3' 4359B3<34' 8:3' ?: 53' & <D3' 7@=8' D53;<56' C3' 43=8< 634,' A

9=:92H';8'53;=8'8 'H38'= 73'= <8' &'83<7=' & <'8:3' 732'?: 7':3' :;4'534'928 '=@D:';'43= 3<;83' =989 2' @ 28';8'8? ' AD5 D>'=328' :9=';943.43.D;7 ,' ; 8;92'/9 @8<36='23' &'8:3 7 3< <A='3J@3<<93='8 ';=>'& <';'=@= 32=9 2' &': =8959893='&< 7' 3492H,' 3' &&3<34'8 ' 3B;D@;83' 24;5@=9;'2 8' 256'?98:':9=' ?2'8< ='C@8'?98:'8: =3' &'/3435';24' @& @<'92'<38@<2'& <';'&<33' ;==;H3'8 ' ;4994,' 599=' ?;=' ;=>92H'8 ' 7@D:';24'9&'8:3' ;29=:'H323<;5':;4'C332';?;<3' &'8:3'43= 3<;83'=8;83' &':9=';4B3<=;<6':3'? @54'2 8':;B3'59=83@34' 8'8:3' < =;5'& <';'7 92@83,' @8':3'494'2 8'>2 ?'8:;8' ;' 32;' ?;=' 2 ?'D5 =3'92' @ 28A=' <3;<'?:953':3' ?;=' &@556';?;<3'8:;8' /3435'<38@<292H'8 '5;83'&< 7'8:3' ;==3='?;=' 2 ?'4<;?92H':3;<' 8'8:3'&9354'&< 7'8:3'2 <8:,' 9=' 732'?3<3';57 =8';=' 3G59;@=834';=' 8: =3' &' @ 28'7;26':;4'4934'&< 7'=@2=8< >3'92'8:3'<;2>='';24' :3'494'2 8'<3&@=3'8 '23H 89;83,' 3'73<356'<3 5934'8:;8':3':;4'2 ' ?3<'8 '8<3;8';24'8:;8';55'D 7 7@29D;89 2='=: @54'C3' 7;43'8 ':9=' D:93&'?: ' 7@=8'C3' = 73?:3<3'92' 8:3' 49<3D89 2' &' 24@X;<,' 3' ? @54' H<;28';'=@= 32=9 2' &';<7='& <';'&3?': @<=' ?:953';' <32D:' ;24';' ;29=:' &&9D3<=: @54'<943' &&'8 H38:3<'8 '=33>'& <' ;=8;&9 =,

@ 28';DD3 834'8:3=3'83<7=' H5;456' ;55'8:3' 7 <3' = ' C3D;@=3' ;' 32;A=' 49B9=9 2';:;4';8'5;='8'<3;D:34'8:3' @7C5;<'C<94H3';24' :;4';22 @2D34'98=';' < ;D:'C6'& @<'D;22 2.=: 8='&9<34';8'<3H@5;<' 9283<B;5=' ;=)';'=9H2;5'8 'D;8D:' 3492HA=' 3;<,' 8' ?;=' ?98:'8:3' H<3;83='8' 49&&9D9486'8:;8'8:3'D 7 7;243<' &'8:3'& @<8:' 24;5@=9;2' 49B9=9 2' D @54'C3' H 8'8 '<3D H29R3'8:3' ;<79=89D3' H<;2834A'C6':9=' D 553;H@35' :3' =;?'8:3' <32D:';8':9=' 73<D6';24'?;2834'8 '&;55' @ 2'8:37' ?:953'8:36' ?3<3'=8955'92' 49=<43<,' @8';&83<' = 73' ;<H@7328':3'D 2=32834'8 ':;58,' ; 8;92'/9 @8<36='; DD 7 ;2934' C6'8:3' ;29=:' 5 235' 2='< 43'8:<@H:':9=' 5923='8 '5 >'& <' ;=8;&9 =,

:3' ;29=:' D 7 7;243<.92.D:93&':;4'49= 5;634' 7 =8'C5;73V ? <8:6'8 < 94986' 2'8:9=.'4;6,' 3':;4'538' @ 28'=59 ';?;6'&< 7

24@X;< ;24 494 2 8 49=D B3< 8:;8 :3 ?;= H 23 8955 4;?2 :;4 ;<<9B34, :32 92=83;4 & @<=@92H ;8 &@55 = 334 ?98: ;55 :9= & <D3= :3 :;4 =328 2 ; 32;A= 49B9=9 2 ?:953 :3 592H3<34 C3:924 ?98:8:;8 & 359G - 23= =@<B3692H8:3 3237 6A= 37 86 5923=, :3 & @<8: 49B9=9 2 7@=8:;B3 7;<D:34 5;83;24 7 B34 =5 ?56 ;= 98 256 <3;D:34 8:3 @7C5;< C<94H3 8?35B3 7953= &< 7 24@X;< ;8 ;C @X $,7, 8 D @54 3;=956 :;B3 C332 8:3<3 C6 M < "" ;,7, ; 24 79H:8 :;B3 &;&9932 @ 2 @ 28 ?:953 :3 ?;= 4359B3<92H 23 & :9= 3;<593< ;88;D>= 2 8:3 ;6532 =989 2,

8 7@D: 8:3 =;73 7 7328 8:;8 /9 @8<36= ;24 2= <3;D:34 ;=8;2 = ;8 24@X;< ;8 ;C @8 &9B3 AD5 D> 92 8:3 ;&83<V 2 2 8:3 =3D 24 :;5& & 8:3 <32D: ;<76); 8 5;=8 ; 3;<34 @ 2 8:3 =D323, %323<;5 /3435 :;4 49=D B3<34 2 8:3 39H:83328: 8:;8 :3 :;4 2 8:92H 8 &3;< &< 7 8:3 =943 & 8:3 ;==3=, 3 8:3<3& <3 D;5534 4 ?2 ;55 @& @<A= 8< = =;B3 8? C;88;59 2= 53&8 ;8 ;28; 532; @29834 8:3 8? 49B9=9 2= ;8 ; ;< 592; ;24 H;B3 <43<= & < 8:39< <38@<2 8 ; 6532 2 8:3 & 55 ?92H 7 <292H, 3;B92H 8:3 C9B @;D ;8 &9B3 AD5 D> /3435 ?98: = 73 " ### < " ## 732 7;<D:34 4 ?2 8:3 43&953 & < 832 7953= ;= &;< ;= 8:3 B955;H3 & %@;<< 7;2 B:9D: :3 <3;D:34 ;C @8 ",I# < #;,7, :3 4;6 ?;= 8 8:3 732 ?3<3 8&<34 ;24 8: @H: 8:3 2 9=3 & ;49=8;28 D;22 23943 D @54 C3 49=892D856 :3;<4 92 8:3 49<3D89 2 & ;6532 8:3 H323<;5 8 54 :9= &&9D3<= 8 ;55 ?8:39< C;88;59 2= 8? : @<= 8 D > ;24 8 <3=8 8:37=35B3=, 6 = 73 923G 59D;C53 D;<353==23== 8:3 8? : @<= =?3554 8 & @< ;24,98 ?;= 2 8 8955 . ,7, 8:;8 8:3 D 5@72 =8;<834 @8 ;H;92 82 4< 4 ?2 8 ;6532, 2 : @< C3& <3 8:3 <32D: 7=9<D:34 8:3 D;22 2;43 ?:9D: :;4 C332 H< ?592H 92 8:3 49=8;2D3 ;55 8:< @H: 8:3 794.4;6 <3=8 =@443256 4934 4 ?2, /3435 ?;= 92 2 ?9=3 49=89@C34 ;24 9= =;94 8 :;B3 <37;<>34 8:;8 :9= D:93& :;4 < C;C56 7;43 ;2 324 & 8:3 ;29=: D < = ?:9D: :;4 C332 C5 D>92H 8:3 < ;4 C38?332 8:37,

&83< 8:9= ;=8 29=:92H 49= 5;6 &=5 8: ;24 =5;D>23== / 3435 < V D33434 ;5 2H 8:3 < ;4 & < 832 7953= 8955 :3 D;73 92 =9H:8 & 8:3 <3;< &8:3 ;29=: =989 2 ;8 ;6532, 9= D;B;5<6 = 2 C< @H:8 :97 8:3 23?= 8:;8 8:3 8< = B9=9C53 @ 2 8:3 :955=943= ?3<3 3237 93=K 8:36 D 2=9=834 &8:3 C<9H;43 ?:9D: 3492H :;4 8 54 &&

* :3<3 9= = 73 49= @83 ;= 8 8:3 3G;D8 : @<= &/3435A= =8;<8 ;24 :;58K :;B3 ;4 834 7 <3 < 53==8: =3 H9B32 C6 ;C;26, /3435 :97=35&?:32 3G;7 9234 C6 8:3 D @98.7;<89;5 =;94 J@A95 23 @B;98 ;= <3D9=3< A:3@<3 A ?:9D: 9= J@983 92 >33 92H ?98:8:3 <3=8 &:9= 4 92H=,

"L,‘ ‘ ‘ ‘ ‘ E: - ;J

;8‘ 8:3‘ C3H9228 2H‘ &‘ 8:3‘ 4;6‘ 8 ‘ : 54‘ 8:3‘ :39H:8‘ &‘ ;2‘ <9=8 C;5‘ ;24‘ 8:3‘ 3<< ‘ 435‘ : <D;4 ‘ ;H;92=8‘ ;‘ ==9C53‘ ;88;D>‘ &< 7‘ 8:3‘ <3;<,‘ 8‘ ?;=‘ ;8‘ 5;=8‘ D53;<‘ 8 ‘ /3435‘ 8:;8‘ 8:92H=‘ :;4‘ 2 8‘ H 23‘ ?355‘ ;8‘ ;6532‘ ;24‘ 8:;8‘ 98‘ ?;=‘ :9=‘ 4@86‘ 8 ‘ <3==‘ 92‘ @ 2‘ 8:3‘ ;29;<4=‘ ;24‘ 3243;B 7*8 ‘ D@8‘ :9=‘ ?;6‘ 8:< @H:‘ 8 ‘ :9=‘ D:93&,‘ 3‘ :;4‘ C3H@2‘ 8 ‘ 43 5 6‘ :9=‘ 8< =‘ ;D< ==‘ 8:3‘ ,43&953‘ ?98:‘ 8:3‘ CX3D8‘ &‘ ;88;D>92H‘ C 8:‘ 8:3‘ &5;2>92H‘ :9 =‘ ?:32‘ 8? ‘ &&9D3<=‘ ?98:‘ ;‘ ?:983‘ &5;H‘ < 43‘ @8‘ 8 ?;<4=‘ :97,‘ :36‘ ;22 @2D34‘ 8 ‘ :97‘ 8:;8‘ @ 28‘ :;4‘ C332‘ C3;832‘ ;24‘ :;4‘ ;=>34‘ & <‘ ;‘ =@= 32=9 2‘ &‘ : =8959893=‘ ?:9D:‘ :;4‘ C332‘ H<;2834,‘ ;‘ 32;A=‘ 8< =‘ :;4‘ =8;634‘ 8:39<‘ ;4B;2D3‘ ;24‘ :3‘ ?;=‘ ;=>34‘ 8 ‘ 4 ‘ 8:3‘ =;73,

98:3<‘ ‘C3D;@=3‘ :3‘ 4 @C834‘ 8:3‘ 8<@8:‘ &‘ 8:3=3‘ =8;837328=‘ <‘ C3D;@=3‘ :3‘ 8: @H:8‘ 8:;8‘ :9=‘ ; 3;<;2D3‘ ? @54‘ 97 < B3‘ @ 28A=‘ =989 2‘ /3435‘ <3&@=34‘ 8 ‘ :;58‘ ;24‘ =328‘ C;D>‘ 8:3‘ ;29=:‘ &&9D3<=‘ 8 ‘ 8355‘ 3492H‘ 8:;8‘ :3‘ =: @54‘ ;88;D>‘ :97,‘ :9=‘ :3‘ 494‘ ?98:‘ =7;55‘ 435;6‘ &;5592H‘ 2‘ 8:3‘ C<9H;43‘ =34‘ 8 ‘ :9995‘ ?98:‘ H<3;8‘ &@<6,‘ @==;<4A=‘ D:.;H 2=‘ D:;<H34‘ 8:3‘ 8< =‘ 2‘ 8:3‘ 5 983<‘ =5 3=‘ &‘ 8:3‘ 3<< ‘ 435‘ : <D;4 ‘ ;24‘ < 43‘ 928 ‘ 8? ‘ C;88;59 2=‘ ?: ‘ ?3<3‘ = ‘ 7@D:‘ <3569 2H ‘ 2‘ 8:3‘ ;<7 9=89D3‘ 8:;8‘ 8:36‘ ?3<3‘ =@< <9=34‘ ?98:‘ 8:39<‘ ;<7=‘ =8955‘ 9534‘ D >92H‘ 8:39<‘ 3B3292H‘ 73;5,‘ ‘ 8: @=;24‘ 732‘ ?3<3‘ 8;>32‘ <9= 23<=‘ ;57 =8‘ ?98: @8‘ &9<92H‘ ;‘ =: 8 ,‘ ;==;H23=A‘ 92&;28<6‘ ;88;D>34‘ 8:3‘ =833 ‘ :39H:8‘ &‘ ;2‘ <9=8 C;5‘ ?98:‘ 53==‘ H 4‘ & <8@235‘ :9=‘ &9<=8‘ ;==;@58‘ ?;=‘ C3;832‘ &&‘ ;24‘ /3435‘ ?;=‘ <3 ;<92H‘ 8 ‘ =@DD @<‘ :97)‘ ?:32‘ ;‘ =3D 24‘ ?:983‘ &5;H‘ D;73‘ @8‘ &‘ ;6532,‘ 8‘ ?;=‘ D;<<934‘ C6‘ ;‘ ;29=:‘ &&9D3<‘ ?: ‘ C< @H:8‘ ?98:‘ :97‘ 3‘ ;<C;<92 ‘ 23‘ &‘ @ 28A=‘ ;943=.43.D;7 ,‘ :3‘ H323<;5 :;4‘ =328‘ ;‘ ?<98832‘ D 7 7@29D;89 2‘ <43<92H‘ /3435‘ 8 ‘ D3;=3‘ &9<92H‘ ;24‘ <37;92‘ J@938‘ ;=‘ ;2‘ ;<79=89D3‘ :;4‘ C332‘ D 2D5@434‘ ;24‘ 98‘ ?;=‘ : 34‘ 8:;8‘ ;=8;2 =‘ ? @54‘ D 2=328‘ 8 ‘ ;‘ D 2B3289 2,‘ :3‘ 7 7328‘ 8:;8‘ :9=‘ ;2=?3<‘ ?;=‘ <3D39B34‘ 98‘ =: @54‘ C3‘ ;==34‘ 2‘ 73;2?:953‘ 8:3‘ ;88;D>‘ 7@=8‘ :3‘ =8 34‘ ;24‘ 8:3‘ 8< =‘ ?98:4<;?2,

/3435‘ C3634K D53;<56‘ :3‘ D @54‘ 4 ‘ 2 8:92H‘ 35=3‘ &‘ <‘ @ 28‘ ?;=‘ :9=‘ :93<;<D:9D;5‘ =@ 3<9 <‘ ;24‘ ;=‘ &;<‘ ;=‘ :3‘ D @54‘ =33‘ ?;=‘ =8955‘ ;‘ &<33‘ ;H328,‘ <3 B3<‘ 3‘ ;<C;<92‘ 8 54‘ :97‘ &‘ 8:3‘ B3<6‘ 3;=6‘ 83<7=‘ ?:9D:‘ 8:3‘ D 7 7;243<.92.D:93&,: 34‘ 8 ‘ H38‘ &< 7‘ ;=8;&8 =,‘ &‘ 8:36‘ &D @54‘ C3‘ =3D@<34‘ 98‘ ? @54‘ C3‘ @223D3==;<6‘ ;=‘ ?355‘ ;=‘ <9=>6‘ 8 ‘ D 2892@3‘ 8:3‘ ;88;D>,‘ <‘ ;‘ 32;‘ 79H:8‘ B3<6‘ ==9C56‘ :;B3‘ ;229.

)‘ ;<32856‘ 8:36‘ ?3<3‘ 8:3‘ =8‘ C;88;59 2‘ &‘ 8:3‘ <5;24;‘ <3H97328‘ ; 4‘ 8:3‘ 795989;‘ &‘ -;32‘ ;DD <492H‘ 8 ‘ 8:3‘ 2;<<;89B3‘ &‘ ;@ 36‘ ;24‘ % 9D 3D:3;‘ ,0 <83D:3‘ 99,‘ N $P,

; 834 8 : 3 C3 ; 832 49B9=9 2 C3& <3 / 3435 D @54 & <D3 : 9= ? ; 6 8 98= ; 94 =92D3 : <=3 ; 24 & 8 ?3<3 C 8 : T& @H : 8 @8 A ; 24 8 : 3<3 ? ; = 2398 : 3< =8<32H8 : 2 < = 9<98 & < <3=9=8 ; 2D3 53&8 ; 7 2H 8 : 3 7 , / 3435 8 : 3<3& <3] ? ; = X@=89&934 92 : 9= C34932D3 8 : 9= =@ 3<9 < ; 24 92 : 9= ?98 : 4< ; ? ; 5 8 ; 928 8 ? 7 953= @ 8 : 3 ; < ; < 592 ; < ; 4,

3 ; 2 ? : 953 / 9 @8<36= 8 : 3 3 7 9== ; 96 & @ 28 : ; 4 <3 ; D : 34 8 : 3 D ; 7 & ; =8 ; 2 = ; 8 24@X ; < 5 ; 83 92 8 : 3 ; &83<2 2 ; 24 5 ; 94 : 9= D : 93&A= < = ; 5= C3& <3 8 : 3 ; 29 ; <4, = 7 9H : 8 : ; B3 C332 3G 3D834 8 : 36 ?3<3 43D59234 @ 28 ? ; = 92 8 : 3 8< ; 24 98 ? @54 : ; B3 C332 ; C=@<4 8 538 : 97 &&= 3 ; =956, H<3 ; 8 CX3D89 2 ? ; = 7 ; 43 8 8 : 3 .<38<3 ; 8 &' / 3435 C@8 ; =8 ; 2 = = ; 94 8 : ; 8 8 : 3 D < = D ; @H : 8 C38?332 ; 32 ; ; 24 3492H 7 @=8 5 ; 6 4 ?2 98= ; < 7 =, ; <56 23G8 7 <292H 0-@56 $#P / 9 @8<36= <38@<234 ?98 : 8 : 9= <3 56 8 8 : 3 <32D : D ; 7 ,

@ 28 73 ; 2 ? : 953 : ; 4 = 328 ; <3=853== 29H : 8, 3 : ; 4 H 23 < @24 8 : 3 79=3< ; C53 C9B @ ; D &' : 9= 732 8 =33 9&8 : 36 ? @54 C3 : ; D 24989 2 8 &9H : 8 23G8 7 <292H 92 8 : 3 3B328 &' 8 : 3 23H 89 ; 89 2= &; 9592H, 593 <3=@58 ? ; = 7 =8 49=D @< ; H92HK 8 : 3 = 5493<= ?3<3 92 49<3 =8< ; 98= & < ? ; 28 &' ? ; 83< 8 : 36 : ; 4 598853 8 3 ; 8 ; 24 ?3<3 = ? <2 @8 8 : ; 8 8 : 36 D @54 2 8 C3 < @=34 3B32 8 H ; 8 : 3< 92 8 : 3 ? @2434, : 3 C<9H ; 493<= ; 24 D 5 235= <3 <834 8 : ; 8 8 : 36 D @54 : 54 @8 2 < = 3D8 &' ; < ; 556 2 8 : 3 7 << ? ` ; \ 256 <9B3 8 : 3 D 7 7 ; 243< &' 8 : 3 j : 3 ; B6.D ; B ; 5<6 C<9H ; 43 = >3 92 &; B @< &' &9H : 892HK 8 : 3 8 : 3<= 4 @C834 ? : 38 : 3< 3B32 $ ###' 732 D @54 C3 H 8 8 H38 : 3< & < ; <@= : ; 8 8 : 3 ; 29 = : 5923=, : 32 ; 2 ; 943.43.D ; 7 ? : 7 / 3435 : ; 4, C332 ; 55 ?34 8 =324 8 : 9= D : 93& ; =>34 ? : 38 : 3< 98 ? @54 2 8 C3 ==9C53 8 7 ; >3 ; D 2D3<834 ; 88 ; D> 2 3492H 23G8 7 <292H ?98 : 8 : 3 CX3D8 &' 49=32H ; H92H 8 : 3 =@<< @2434 49B9=9 2 @ 28 8 54 : 97 8 : ; 8 98 ? ; = 2 @=3 8 49.3 ; 7 &' ; 26 =@D : 8 : 92H, / 3435 7@=8 <3 ; <3 & < ; < 7 8 <38<3 ; 8 92 <43< 8 = ; B3 : 97 =35&$ 2 7 <3 D @54 C3 4 23,

8 4 ; ?2 2 8 : 92H : ; B92H C332 638 =388534, ; 32 ; ? < 83 8 @ 28 8 : <3 ; 83292H 8 : ; 8 9& 8 : 3 ###' 732 ? : : ; 4 C332 D ; 8@<34

* < ; DD <492H 8 = 73 ; @8 : <9893= 7 38 ; =8 ; 2 = ; 8 8 : 3 &9<=8 =8. : @=3 @8 &' 24@X ; < 2 8 : 3 ; 6532 < ; 4,

23 D 2&3==3= 8 : 3 437 <; 59R ; 89 2 &' 8 : 3 <32D : 8< = 7 <3 8 : ; 2 6, * @ 28 B @5 ; 98 D 7C ; 88<3 32D <3, ; , , ; 9= @< 3G3D@83< 43= <3= 5@89 2= B9H @<3@=3= & ; 55 ; 98 43= = 54 ; 8= ; D 24@9<3, < D3= 92& <8@23= 2A38 ; 9328 5@= 43= = 54 ; 8= S DA38 ; 98 @2 8< @ 3 ; 4 7923 ; < 53= C3=J92= : 6=9J@3= =@< 53J@35 53= 92&5@32D3= 7 <; 53= 2A ; B ; 9328 5@= 43 <9=3, ; = @&9< ; 2D3 ; B ; 98 ; D : 3B4 4A323<B3< 53= D @< ; H3=,A

9&' :3' D 2D3434' ;' &<33' <38<3;8' 8 ' /3435' ;24' @& @<' :3' ? @54' C3' 32;C592H' 8:37' 8 ' D;<<6' @8' 3G;D856' 8:3' 7 B37328' ?:9D:' ;B;<6' 92832434,' ' 4 ' =' ? @54' D53;<56' C3' @243=9<;C53K' :3' 8:3<3& <3' 9283< =34' 92' 8:3' 23H 89;89 2=' ;24' 43D5;<34' 8:;8' 8:3' 8< =' &' 8:3=3' 8? ' H323<;5=' =: @54' 2 8' C3' ;55 ?34' 8 ' J@98' 24;5@=9;' C6' 8:3' < ;4' ?:9D:' :;4' C332' :98:3<8 ' < =34,' 936' 7@=8' C3' =328' < 9524' C6' =3;' 8 ' = 73' <8' &' <;2D3' 2 8' 97 7349;8356' D 289H@ @=' ?98:' 8:3' ;29=:' &< 2893<,

:;C3<8' ;24' ;<3=D 8' ;=' ?;=' 2;8@<;5' 43D5;9734' B3:3732856' ;H;92=8' 8:9=' < X3D834' D:;2H3' 92' 8:3' D; 98@5;89 2' ;24' 43D5;<34' 8:;8' 98' ?;=' 92;479==9C53,' @8' 8:36' ?3<3' ;2=?3<34' 92' 3B32' 7 <3' B9 5328' 83<7=' C6' 8:3' 8@<C@5328' 243' 43' 9 6' ?:' ;8832434' ;=' <3 <3V =328;89B3' &' 8:3' -@28;' &' 3B9553,' 3' 8;@2834' 8:37' ?98:' 8:39<' ;8< D9893=' ;8' 8:3' =;D>' &' <4 B;' ;24' 8:<3;83234' 8:;8' 9&' 8:3' 23H 89;89 2=' &3558:< @H:' 2 ' J@;<83<' =: @54' C3' H9B32' 8 ' 8:3' <32D:' ;<76,' 8' 5;=8' ;=8;2 =' =@HH3=834' ;' D 7 < 79=3K' :3' &&3<34' 8 ' 538' @ 28A=' 8< =' 2 ' 53==' 8:;2' 8: =3' &' /3435' <38@<2' 8 ' <;2D3' C6' =3;' 9&' 8:3' D5;97' 8:;8' 8:3' 5;883<' =: @54' C3' ;55 ?34' 8 ' <38<3;8' 2' ;4<94' ?3<3' ?98:49A;?2,' :9=' ?;=' D 2D3492H' 7@D:' ;24' 8:3' <32D:' H323<;5=' ;DD3 834' 8:3' < =;5,

DD <492H56' ;=8;2 =' ;24' 9 6' <3 <3=32892H' 8:3' ;29;<4=' ;24' :;C3<8' ;24' ;9.3=D 8' 2' C3:;5&' &' @ 28' =9H234' <3V 5979 2;<93=' C6' ?:9D:' 98' ?;=' ;H<334' 8:;8' 8:3' =@<< @2434' 49B9=9 2=' =: @54' & <7;556' 5;6' 4 ?2' 8:39<' ;<7=' ;24' C3D 73' <9= 23<=' &' ?;<' ?:953' /3435A=' 732' =: @54' 2 8' C3' D 2=943<34' 8 ' :;B3' D; 98@V 5;834' 2 <' 7;>3' ;26' ;D8' &' =@<<3243<;' 8:' C 493=' &' 732' =: @54' 53;B3' 24;5@=9;' C6' =3;' ;24' C3' 8;>32' 8 ' D:3& <8' 2' ;29=:' B3==35=;' I' :3' ;29=:' ;<76A' =' <;2' 8:3' D@<9 @=56' ? <434' =3B328:' ;<89D53' &' 8:3' D; 98@5;89 2' TH@;<;2833=)8:37' ;H;92=8' ;55' : =8953' ;HH<3==9 2' 4@<92H' 8:39<' ;==;H3,A' :3' 8:3<' D5;@=3=' D 28;92J' 2 8:92H' =8<9>92H' =;B3' = 73' <;8:3<' 59C3<;5' 3<79==9 2=' 8 ' 8:3' <32D:' &&9D3<=' 8 ' 8;>3' ;?;6' 8:39<' C;HH;H3 3;DC' H323<;5?;=' 8 ' C3' ;55 ?34' 8? ' ?:33534' B3:9D53=' 3;D:' &9354' &&9D3<' <' =8;&&' &&9D3<' 23 ?98:' @8' 98=' C392H' 3G;7 9234,' :9=' ;<89D53' D;@H:' 8' 8:3' 363' &' ; 53 2' ;24' :;=' C332' 2 834' C6' 7;26' =@C=3J@328' D<989D=' ?:' ' :;B3' 7;928;9234' 8:;8;' @ 28' ;24' :9=' D 553;H@3=' H <H34' ?98:' 8:3' 5@243<' &' <4 B;' =@<<32439)34' C3& <3' 8:36' 233434' 92' <43<' 8 ' <3=3<B3' 8:39<' C 86' 928;D8;' :;8' 8:36' 6935434' C3& <3' 98' ?;=' 923B98;C53' ?3' 4 ' 2 8' C3593B3K' C@8' &;<' 7 <3' ;2G9386' 8:;2' ?;=' C3D 792H' =337=' 8 ' :;B3' C332' =: ?2' <3H;<492H' 8:3' C;HH;H3,' :9=' ;2G9386' &924=

; JA‘ ‘ $ $ ‘ ‘ ‘ E: - <;

3;=6‘ 3G 5;2;89 2‘ 9&‘ 8:3‘ ;29=:‘ &&9D9;5‘ =8;837328‘8:;8‘ 7 <3‘8:;2‘
dL# ###‘92‘ : ;<4‘D;=:‘ ;24‘ ;‘H<3;8‘J@;28986‘ &‘X3?3553<6‘ ;24‘ =95B3<‘
5;83‘ ?;=‘ ;&83<?;<4=‘ & @24‘92‘8:3‘ * ‘ &‘8:3‘ =8;&&‘ ;24‘8:3‘
=@ 3<9 <‘ &&9D3<=‘C3‘ ;DD3 834‘ ;=‘D <<3D8 ,
:3‘ &9&83328:‘D5;@=3‘ &‘8:3‘D; 98@5;89 2*‘:;4‘D 28328=‘ &‘=8955‘
7 <3‘4 @C8&@5‘ < <9386K‘98‘?;=‘8‘8:3‘3&&3D8‘8:;8‘;=‘7;26‘ 93D3=‘
&‘D:@<D:‘ 5;83‘:;4‘C332‘=8 532‘;8‘8:3‘=;D>‘ &‘ <4 B;‘ @ 28‘
@243<8 >‘8 ‘ 7;>3‘;‘=3;<D:‘& <‘8:37‘;24‘<3=8 <3‘8:37‘8 ‘8:3‘
=;2D8@;<93=‘8 ‘ ?:9D:‘8:36‘C35 2H34‘9&‘8:36‘D @54‘C3‘& @24‘92‘
3G9=832D3,‘ :3‘D 2&3==9 2‘ ?;=‘ =‘ =D;24;5 @=‘ 8:;8‘ ?3‘ =:;<3‘
; 53 2A=‘? 243<‘8:;8‘=@D:‘;‘D5;@=3‘D @54‘3B3<‘:;B3‘C332‘ ;==34‘
C6‘8:3‘8? ‘ <32D:‘23H 89;8 <=5‘9&‘8:36‘?3<3‘;?;<3‘8:;8:3‘D:;<H3‘
&‘8:3&8‘?;=‘8<@3‘0;=‘98‘2 ‘4 @C8‘?;=P‘=:;73‘=: @54‘:;B3‘ <3B32834‘
8:37‘&< 7‘ @8892H‘98‘ 2‘ ; 3<K‘9&‘8:36‘8: @H:8‘98‘&;5=3‘8:36‘?3<3‘
3<7 98892H‘;‘H<;8@98 @=‘92=@58‘8 ‘8:3‘ <32D:‘;<76‘8 ‘CU‘92=3<834‘
92‘8:3‘D; 98@5;89 2,
:953‘8:3‘23H 89;89 2=‘?3<3‘H 92H‘2‘ @ 28‘=328‘=3D<38‘ <43<=‘
8 ‘/3435‘8 ‘;C=D 24‘4@<92H‘8:3‘29H:8‘;24‘8 ‘<38<3;8‘ 2‘ ;4<94‘
;=‘&;=8‘;=‘:3‘?;=‘;C53,‘ :;C3<8‘;24‘ ;<3=D 8‘:;4‘ &‘D 7=3‘2 ‘
>2 ?534H3‘ &‘8:9=‘ <‘8:36‘? @54‘:;<456‘:;B3‘D 2=32834‘8 ‘92D5@43‘
8:;8‘H323<;5A=‘8< =‘92‘8:3‘D 2B3289 2,‘ 2‘ ;DD <4;2D3‘?98:‘:9 ‘
=@ 3<9 <A=‘ <43<=‘;24‘?98:‘8:3‘ CB9 @=‘23D3==9893=‘ &‘8:3‘D;=3‘
/3435‘7;43‘ &&‘ 2‘8:3‘29H:8‘ &‘-@56‘$#.$ ‘53;B92H‘256‘;‘=D<332‘
&‘ 9D>38=‘92‘&< 28‘ &‘:9=‘ =989 2‘8‘ D 2D3;5‘:9=‘43 ;<8@<3‘&< 7‘
8:3‘ ;29;<4=‘;=‘5 2H‘;=‘?;=‘ ==9C53,‘ 2‘8:3‘<38@<2‘* &‘:9=‘
5329 83289;<93=‘8 ‘:9=‘D;7 ‘ 2‘8:3‘7 <292H‘ &‘8:3‘8?3286.&9<=8‘
@ 28‘53;<28‘8 ‘:9=‘=@< <9=3‘;24‘49=D 28328‘8:;8‘8:36‘:;4,‘92V
D5@434‘/ 35A=‘49B9=9 2‘92‘8:39<‘C;<H;92‘?98:‘ ;=8;2 =,‘ @8‘;=‘
8:;8‘&55D3<‘?;=‘2?‘&;<);?;6 :3‘:;4‘<3;D:34‘ ;‘ ;< 592;‘;8‘
4;6C<3;>‘;24‘ ;28;‘ 532;‘C6‘2 2 8:3‘D 7 7;243<.92.D:93&‘: 34‘
8:;8‘:9=‘8< =‘?3<3‘=;B34,
:3‘;2H3<‘ &‘8:3‘ ;29;<4=‘;8‘49=D B3<92H‘8:3‘3B;,=9 2‘ &‘8:3‘
=3D 24‘ <32D:‘49B9=9 2‘7;6‘3;=956‘C3‘97;H9234,‘ 3492H‘?:‘?;=‘
8:3‘&9<=8‘8C‘C3D 73‘;?;<3‘ &‘98‘=328‘4 ?2‘;2‘ &&9D3<‘928‘ @ 28A=‘
D;7 ‘?98:‘8:3‘73==;H3‘8:;8‘9&‘/3435‘494‘2 92=8;2856‘<38@<2‘:3‘
=: @54‘<3H;<4‘8:3‘D 2B3289 2‘;=‘)C< >32‘;24‘&;55‘@ 2‘8:3‘=@<V
< @2434‘8< =K‘ :3‘=: @54‘H9B3‘2 ‘J@;<83<‘;=‘:3‘D 2=943<34‘8:,;8

L‘ .‘5%44 1+‘6 7)2‘%)‘.0+‘ ‘ ‘ 6‘ -. 1+,‘" ‘ .‘%& &.(.+2‘
.0(.‘ ‘2 44(,& %)‘ &%48+,‘ ()2‘ ‘2 44(,& %)‘3 42‘1+&%2+& '7-0‘/4(.+‘
()2‘H+5+44+,*‘5+,+‘6 7)2‘%)‘.0+‘ 6 #‘+6‘M7/).‘()2‘0%& &.(66

8<3;D:3<6 :;4 C332 =: ?2 ;24 8:;8 8:3 ;<7 9=89D3 :;4 C332 ;C@=34,
@ 28 D @54 2 8 : 3 8 7 ;>3 ;=8;24 ;24 ?;= ;8 8:3 3237 6A=
7 3<D6, 3 49<3D834 :9= D:93& &8:3 =8;&&8 ?<983 ;2 <43< C94492H
/344 8 ;58 ;24 =328 98 8 97 C6 23 &:9= ;943=.43.D;7
;DD 7 ;2934 C6 ; ;29=: &&9D3<, :9= 494 2 8 =;89=&6 3492H
?: 92=9=834 8:;8 @ 28 =: @54 ?<983 ;2 ;@8 H<; :53883< &:9=
?2 92 =8< 2H3< 83<7=, 9= 437;24 D @54 2 8 C3 <3&@=34 ;24
8:3 8? 49= ;8D:3= <3;D:34 /3435 ;57 =8 ;8 8:3 =;73 : @<;=
:3 ?;= <3=892H :9= 8< = ;8 ;28; 532;C3& <3 5@2H92H 928 8:3
;==3=,
/3435 ;= ;55 :9= <3B9 @= D 24@D8 :;4 =: ?2 ?;= ?3;> ;24
?;2892H 92 92989;89B3, 73 &:9= &&9D3<= 8<934 8 3<=@;43 :97
8 @=:2 ;24 8 53;B3 @ 28 8 7 ;>3 8:3 C3=8 83<7= & <
:97=35& 8:;8 :3 D @54, @D:?;= 8 C3 =;94 92 &;B @< &8:9=
<3= 5B3K :3 79H:8 :;B3 ;<H@34 8:;8 =92D3 :3 :;4 23B3< C332
?98: @8 8:3 ?3< &<38<3;892H 98 ?;= ?< 2H &:9= =@ 3<9 < 8
92D5@43 :97 92 8:3 D; 98@5;89 2, 9= 4@86 8 8:3 7 3< <? @54
C3 8 =;B3 :9= 732 ?:;83B3< 79H:8 C3 8:3 D 2=3J@32D3= 8 @ 28,
593 5;883< =@<< @2434 ;= :3 ?;= D @54 :;<456 C3 D 2=943<34 ;&<33
;H328 ;24 :9= <43<= 79H:8 C3 49=<3H;<434, @8 =@D:B93?= ?3<3
&;< &< 7 /3435A= 7924K :3 ;@8 7 ;89D;556 C3634 :9= D:93&= 49= ;8D:
;24 :;5834, 3G8 4;6 :3 7 ;<D:34 :9= 8< = C;D> 8 ;6532 92
D 2=3J@32D3 &;8:9<4 D 7 7@29D;89 2 &< 7 @ 28,
2 -@56 $I @ 28A= 8< = 5;94 4 ?2 8:39< ;<7= ?98:& &@55
& <7 ;59893 43&9592H 8 8:3 = @24 &7 9598;<6 7 @=9D C3& <3 8:3 49B9V
=9 2= & ; 32;;24 - 23= ?: ?3<3 4<;?2 @ C6 8:3 @7C5;<
C<94H3, 2 8:3 8?3286.& 9@8:/3435A= ;24 @& @<A= 8< = ?98: @8
;26 =@D:@7959;892H D3<37 26 =8;D>34 8:39< 7@=>38= ;24 D;22 2
2 8:3 955=943= 3;=8 &;6532 ;24 7;9.D:34 & <8:3 D ;=8; \ :32
8:3 8? D < = ?3<3 2@7C3<34 98 ?;= & @24 8:;8 M L @2? @2434
732 ::;4 =@<<3243<34 ?98: @ 28K 23;<56 $ ### 7 <3 43;4 <
? @2434 ?3<3 53&8 2 8:3 C;8853.&9354$ =3B32 < 39H:8 :@24<34 &
8:3 ?9== C;88;59 2= :;4 43=3<834 ;24 49=; 3;<34, 98: /3435
" I" I 732 5;94 4 ?2 8:39< ;<7= 8 256 494 :3 4359B3< @ :9=

* :9= 8 8;5 & NIN H B32 92 8:3 ;29=: <38@<2= =337= ;C= 5@8356
D3<8;92, 8 8;5593= B3<6 ?355 ?98: 8:3 <9H92;5 &9H@<3= &.8:3 <32D: 49B9=9 2=
6B:32 5 ==3= 92 8:3 D;7 ;9H2 ;<3 ;55 ?34 & <, &924 92 8:3 5 6 & ;D 2837 <;<6 ;29=: =D<; & @2>2 ?2 < B32;2D3 H9B92H = 73?:;8
49&&3<328 &9H@<3= ;= & 55 ?= K @ 28A= D < = K @2? @2434 <9= 23<= □ S
>95534 ;24 ? @2434 2 8:3 &9354 I ### $?9== 43=3<83<= $## $ =9D> D; 8@<34

?2 D 5@72 C@8 :3 D;5534 4 ?2 8:3 C;88;59 2 H@;<492H 8:3 3= 32; 3<< = ;==; B32 8:3 8< = 53&8 C36 24 8:3 43&953= 92 ; ;2D:; ?3<3 =@772348 =@<<3243< C6 8:3 ;29;<4= ;24 =73 &8:37 494 = 8: @H:8:36 ?3<32 8 <3;556 92D5@434 92 8:3 D; 98@5;89 2 B:9D: ?;= C6 98= ? <492H D 2&9234 8 <32D:8< = 92 24;5@=9;; @8 8:3 D 77;243<= &8:<33 C;88;59 2= ;55 ?34 8:37=35B3= 8 C3 92897 94;834 C6 5 235 <@R. @<H3 2 ? : ?328 8 =33> 8:37 ;8 8:3 :3;4 &;&3?D;B;5<6 ,;24 8;7356 5;94 4 ?2 8:39< ;<7=

:3 ;29;<4= :;4 ? 2 8:39<=@DD3== ;8 B3<6 =7 ;55 D =8; 3492HA= 49B9=9 2 <38@<234 ;D;=@;586 59=8 & 43;4 ;24 L#I ? @2434 92 ?:9D: ?3<3 92D5@434 8:3 5 ==3= &8:3 =>9<79=: &-@56 N ;= ?355;= 8: =3 &8:3 C;8853 &8:3 292383328:; @ 9H26 5 =8 ##43;4 ;24 $"L ? @2434; ; 32;A= ;24 <@R. @<H3 2A= D 5@72= ?:9D: :;4 C;356 H 8 928 8 @D: ?98: 8:3 <32D: ?:32 8:3 ;<79=89D3 ?;= H<;2834 D;22 8 :;B3 5 =8 7 <3 8:;2 ;=D <3 <8? & 732; :3 8 8;5 9= 2 7 <3 8:;2 " L; :3<3?3<3 92 ;44989 2 ""M <9= 23<= D; 8@<34 C6 /3435 ?:32 :3 ;88;D>34 &< 7 8:3<3;< C@8 8:3=3 ?3<3 &D @<=3 <3=8 <34 2 8:3 8?328938: 92 D 2=3J@32D3 &8:3 <43<= =328 C6 @ 28 ;5 2H ?98: 8? H@2= ;24 8? <3H97328;5 =8;24;<4=,

;=8;2 = ;7;2 &@28;<29=:34 : 2 @< : ;4 3B3<6 92832 89 2 & D;<<692H @8 8:3 D; 98@5;89 2, :3 <32D:8< = 49B9434 928 =7;55 D 5@72= ?3<3 =328 4 ?2 8 8:3 D ;=8 <8 8:3=7;55 8 ?2= &8:3) ?3<%@;4;5J@9B9< @243< ;29=:3=D <8= ?:9D: :;4 = 73 49&&9D@586 92 <3=3<B92H 8:37 &< 7 8:3 &@<6 &8:3 3;=;28<6, 8 ?;= 23D3=;<6 8 ;B 94 8:3 5;<H3 ?2= 59>3 <4 B;;24 3B9553 ?:3<3 8593 ;==;H3 &8:3 @2;<734 <9= 23<= ? @54 D3<8;9256 :;B3 534 8 <9 8= ;24 7;==;D<3=; 8 D9X;8:3 7 C ;D8@;556 =@DD33434 92 7 @<43<92H =9G86 @2& <8@2;83 <32D:732; @8 ?:32 8:3 8< = :;4 C&332 D 2V 4@D834 8 8:39<833 7 <;<6 43=892;89 2= 98 ?;= & @24 8:;8 49&&9D@5893= :;4 ;<9=32; :3 ;7 @28 & ;29=:=:9 92H ;B;95;C53 ? @54 2 8 :;B3 D;<<934 $# ###7 32; :9= ?;=;D 7 ;<;89B356 =7;55 :924<;2D3 ;= 8:3 8< = D @54 :;B3 C332 =328 && 92 438;D:7328=; @8 98 ?;=

92 8:3 : = 98;5= L## S 7;>92H ;8 8;5 & # N##; /:98892H:;7 8:3 2H59=: ;88;D:3 92 ;=8;&9 =A D;7 H9B3= ;2 8:3< =38K @2? @2434 <9= 23<= N N##S >95534 ;24 ? @2434 $ N##S ?9== 43=3<83<= ##S 7;>92H " $##; @8 C 8: &8:3=3 ;<3 D 2&3==3456 < @H: 3=897;83= 8: @H: 7;43 2 8:3 = 8; = 8 8:3 8:3< <32D: <9= 23<= 8:3 /;@H:;2 4 D@7328 =;6= 8:;8 " ## =@<V <3243<34 ?98: / 3435 M## 92 8:3 ;==3= ;24 ## 7 <3 92 ; ;2D:;,

* ;88;59 2= =@<<3243<34 ;8 ;28; <@R ;24 ;8 ;2R;2;<3=; @8 8:3 &&9D3< 92 D 77;24 ;8 ;4<943X = <3&@=34 8 C3 D;X 534 ;24 <38<3;834 2 ;4<94,

7 <3' =3<9 @=' 8 : ; 8' <4' 92H? 4 '8 : 3' D 7 7 ; 243< &'8 : 3' <989= :' =J@ ; 4< 2' &&' ; 49R' <3&@=34' : 9=' 3<7 9==9 2' & <' 8 : 3' 3 7 C ; <> ; 89 2' &' 8 : 3' <32D : ,' 3' C=3<B34' 8 : ; 8' ; =8 ; 2 =' : ; 4' < 7 9=34' 8 ' =324' @ 28A=' ; <7 6' : 7 3' C6' ? ; 83<' ? 98 : @8' D 2=943<92H' ? : 38 : 3<' : 3' : ; 4' 8 : 3' ? 3<' 8 ' 4 ' = ,' : 3' <989= :' &5338' D 7 7 ; 2434' 8 : 3' =3 ; ' ; 24' ? ;=' C5 D> ; 492H' D : 3& <8 '8 : 3' <8' ? : 9D :' 8 : 3' D ; 98@5 ; 89 2' ; ==9H234' & < 8 : 3' 5 ; 2492H' &'8 : 3' D ; 89B3' ; <7 6,' ' <3 <3=328 ; 89B3' &' %<3 ; 8' <98 ; 92' : ; 4' =9H234' 8 : 3' D 2B3289 2' (' ; 24' = : 3' ? ;=' 2 8' C @24' C6' 98,' 3' 7 @=8' &924' @8 ' C6' D 2=@5892H' : 9=' H B3<2 7 328 ' ? : 38 : 3<' 8 : 3' 8< ; 2=&3<32D3' &'8 : 3' 8< =' &' @ 28' 8 ' <; 2D3' ? ;=' 8 ' C3' ; 55 ?34,

2' : 3 ; <92H' &'8 : 3' 49&&9D@5893=' <; 9=34' C6' 92H? 4 ' ; =8 ; 2 =' H 8' 928 ' D 7 7 @29D ; 89 2' ? 98 :' @ 28 ' ; 24' 4<3?' @ ' =9G' =@ 53V 7 328 ; <6' ; 9%89D53=' 8 ' 8 : 3' D 2B3289 2 ' 92' ? : 9D :' 98' ? ;=' =89 @5 ; 834' 8 : ; 8' 9&' 8 : 3' <989= :' % B3<2 7 328' CX3D834' 8 ' D : 3& <8' ; =' 8 : 3' <8' ; 8' ? : 9D :' 8 : 3' <32D :' 8< =' ?3<3' 8 ' C3' 5 ; 2434 '= 7 3' 8 : 3<' 5 ; D3' = : @54' C3' =353D834,' &' ; 55' ; ==; H3' C6' =3 ; ' ? ;=' 432934 ' ;' ? ; 6' C6' 5 ; 24' = : @54' C3' H< ; 2834' C6' 8 : 3' ; 29 ; <4=,' : 9=' ; H<33 7 328' ? ;=' =9H234' ; 8' 3B9553' 2' @H@=8' N ' C@8' 7 3 ; 2 ? 59953' 8 : 3' - @28 ;' ? ;=' C392H' 92D9834' 8 ' C<3 ; >' 8 : 3' D 2B3289 2,' 3B3<; 5' &'98=' 7 <3' <3D>53=='' ; 24' &; 2 ; 89D ; 5' 7 3 7 C3<=' 3256' C< ; D : 34' 8 : 3' 943 ;' 8 : ; 8' 2 ' &; 98 :' 2334' C3' >3 8' ? 98 :' 8 : =3' ? : ' : ; 4' 92B ; 434' ; 92' @243<' =@D :' 8<3 ; D : 3< @=' <3832D3=,' : 3' 23?= ; 3<=' ?3<3' &@55' &' 8 ; 53=' &' <32D :' @8<; H3=' ; 24' < 83=8=' ; H ; 92=8' 8 : 3' 59C3< ; 89 2' &'8 : 3' = 953<=' &' <4 B ;' ; 24' - ; 32,

; 883<=' D ; 7 3' 8 ' ;' : 3 ; 4' ? : 32' @ 28' kB< 83' 8 ' <5 ;' 8 : 3' ; 8 ; 92.%323< ; 5' &' 24 ; 5@=9 ;' 8 ' < 83=8' ; H ; 92=8' &@<8 : 3<' 435 ; 6=' ; 24' 8 ' <3J@9<3' 8 : ; 8' 8 : 3' &9<=8' 49B9=9 2' &' : 9=' ; <7 6' = : @54' C3' ; 55 ?34' 8 ' =; 95' ; 8' 2D3' W @H@=8' M],' 3' <3D39B34' 92' <3 56' ;' 7 =8' = : ; 7 3V 53==' ; 24' D629D ; 5' 53883<' : 3' ; 8 ; 92.%323< ; 5' C3H ; 2' C6' 43D5 ; <92H' 8 : ; 8' 8 : 3<3' ?3<3' 2 ' = : 9 =' ; B ; 95 ; C53,' @8' : 3' 8 : 32' ?328' 2' 8 ' =8 ; 83' 8 : ; 8' 2 ' 7 <3' : ; 4' C332' < 7 9=34' 8 : ; 2' 8 : ; 8' 8 : 3' - @28 ;' ? @54' <3J@3=8' 8 : 3' <989= :' 8 ' ; 55 ?' 8 : 3' <32D :' 8< =' 8 ' =; 95,' 3' =@ =34' 8 : ; 8' 98' ? ;=' < C ; C53' 8 : ; 8' ;' C5 ; 2>' <3&@= ; 5' ? @54' C3' =328' 8 ' 8 : 9=' 437 ; 24,' : 6' = : @54' <98 ; 92' ; 55 ?' 8 : 3' ; ==; H3' C6' =3 ;' &' 8< =' ? : ' ?3<3' 43=89234' 8 ' C3' @=34' ; H ; 92=8' : 3<' 2' = 7 3' 8 : 3<' 928' &' 8 : 3' 8 : 3 ; 8<3' &

' : 3<3' : ; 4' C332' ;' <989= :' ; 88 ; D : 3' ; 8 ; 92' 5998892H : ; 7 ' ; 8' ; =8 ; &9 =' : 3 ; 4' J@ ; <83<=,' : 3' <32D :' 23H 89 ; 8 <=' : ; 4' 8<934' 8 ' 924@D3' : 97' 8 ' ; < B3' 8 : 3' 83<7=' &' D ; 98@5 ; 89 2,' @8' : 3' B3<6' ?9=356' <3&@=34' : ; B92H' 2 ' ; @8 : <986' 8 ' 4 ' = ,

* 99=' ?955' C3' & @24' <92834' ; 8' 532H8 :' &89 8 : 3' 3249G' &' ; 3<=' <35 ; 892H' 8 ' ; 6532,

? ;< b <5;' 23G8 92=92@;834 8:;8 @ 28 :97=35& 7@=8 :;B3 C332 ?355 ;?;<3 8:;8 8:3 D; 98@5;89 2 D @54 2 8 C3 D;<<934 @8,' @< GD35532D6A= CX3D8 92 92=3<892H 8:3=3 D 24989 2= 6 7 3<356 8 C8;92 ,83<7 = ? :9D: 97 ==9C53 ;= 8:36 ?3<3 8 3G3D@83 7 9H:8 638 H9B3 ;'=: ?' &: 2 9<< 8 8:3 923B98;C53 =9@<3243<;;;;) :;8 <9H:8 :;B3)6 @8 <3J@9<3 8:3 3<& <7;2D3 &8:3=3 97 ==9C53 D 2. 4989 2= 2 C3:;5& &;2 ;<76 ?:9D: 3283<34 ;92 @243<;' <3832D3 &;559;2D3 ;24 8:32 97 <9= 234 @< 092H;24 <92D3= =;D>34 :9= ;5;D3= =53?;24 < C:34 :9= =@CX3D8= ?;=834 :9= < B92D3= ;24 8 <3 ;?;6 :9= D< ?2 2A

&83<;' 435;6 &= 73 ?33>= <4 92H? 4 =328 92 8 8:3 -978;8:3 <3 56 &:9= H B3<2 7328, 8 ?;= &;< &< 7 C392H &8:3 >924 8:;8 <5;';24 :9= &<9324 =:;4 : 34, ;2292H:;4 ;2=?3<34 8:;8 2 =89 @5;89 2= 7;43 ;8 ;X532 D @54 C924 %<3;8 <98;92 C@8 8:;8 8 C59H3 :3< ;5593= ;24 8 ;B 94 D 7 < 79=92H 8:39< : 2 @<' =:3 D 2=32834 8 ;55 ?' 8:3 <32D:';<76 8 C3 =328 C;D>' 8 <;2D3 ;24 8 C3 5;2434 92 =@DD3==9B3 438;D:7328= &L ### 732 ;8= 73 <8 C38?332 <3=8 ;24 D:3& <8 09,3,';8 ;283= < A <9328P, 8 9= ;92&84 8 :;B3 8 ;44 8:;8 2398:3<8:3 -@28;' &3B9553 2 <8:3 @ <3737 328<;5 -@28;' ?:9D: =@ 3<=3434 8:;8 C 46 8 >;26 =83 = 8 D;<<6 @8 8:9= < X3D8, @ 28 :97=35& :9= H323<;5= ;24 :9= =8;&& ?3<3 =328 : 73 8 <;2D3 C@8 8:39< @2& <8@2;83 8< = ?3<3 >3 8 & <;' 89737 92 D;28 27328= 92 24;5@=9;8:32 =328 2 C ;<4 28 2= 92 8:3 ;6 &;49R ?:3<38:36 ?3<3 =@CX3D834 8 ;55 7;223< &955 @=;H3 ;24 :;5&.=8;<B34 ;24 &92;556 49= ;8D:34 8 8:3 43= 5;83 < D> &;C<3<;'92 8:3 ;53;<9D =5;24= ?:3<3 7 <3 8:;2 :;5& &8:37 3<9=:34 &D 54 49=3;=3 ;24 92=@&&9D9328 2 9@<9=:.' 7328 /3435A= 732 ?3%3 97 9%9= 234 2 53== 8:;2 @ 28A= ;24 8:3 =@<B9B <= ?3<3 256 <353;=34 ;8 8:3 D 2D5@=9 2 &8:3 H323<;5 3;D3 &M L,

32434 8:3 =8<;2H3 ;24 955.& @H:8 D;7 ;9H2 &;6532, 8 9= D53;< 8:;8 @ 28A= 79=& <8@23= ?3<3 &:9= ?2 D<3;89 2, 3 @H:8 23B3< 8 :;B3 592H3<34 ;8 24@X;< 8955 -@56 ?;= &;< = 328 C@8 =: @54 398:3< :;B3 7;==34 :9= 8:<33 49B9=9 2= ;24 &;5532 @ 2 ;=8;2 = < :;B3 <389<34 8 ;'=;&3 43&32=9B3 =989 2 ;8 ;6532 < 59;' ;< 592;' ;24 :;B3 ?;9834 8 C3 ;88;D>34, 3 79H:8 :;B3 @29834 = 738:92H B3< $# ### 732 ;24 D @54 :;B3 43&934 3B3<6

* <8:3 : << <= & ;C<3<;'8:3 ? <>= &8:<33 &8:3 <9= 23< @D < &8:3 ;<923= &8:3)%@;<4 ';24 %9553 ;24 ;H< &/3435A= 49B9=9 2 7;6 C3 D 2=@5834, :39< =8 <6 9= 433 56 49=8<3==92H,

3&& <8' &' 8:3' I ###' ;29;<4=' 8 ' 4<9B3' :992' C;D>' B3<' 8:3' 93<<;'
<32;' 6' 49B9492H' :9=' ;<76' 928 ' &<;D89 2=' ;24' 3<=9=892H' 92'
: 5492H' 24@X;<' :3' C< @H:8' <@92' @ 2' :97=35&,' @8' 8:3' <3D9=3'
& <7' 92' ?:9D:' 8:3' <@92' D;73' ;C @8' ?;=' 4@3' 53==' 8 ' @ 28' 8:;2' 8 '
/3435,' :;8' &&9D3<A=' C5924' ;24' 9<<;89 2;5' 7;<D:' 2' ;' ;< 592;'
;24' ;C;24 27328' &' ;6532' 2' -@56' M' H;B3' 8:3' ;29;<4=' 8:3'
D:;2D3' &' 9283< =92H' C38?332' 8:3' 8? ' :;5B3=' &' 8:3' <32D:' ;<76,'
&' /3435' :;4' 7;43';' < 3<' <3D 22;9==;2D3' 2' 8:3' =3B3283328:'
:3' ? @54' :;B3' & @24' 8:;8' 3492H' :;4' 2 8' 7;<D:34' & <' 8:3' ;==3='
C@8' ?;=' =8955' 592H3<92H' ;8' 32H9C;<,' 2=83;4' :' ?3B3<' &' =?33 92H'
8:3' D @28<6.=943' & <' 8<;D3=' &' 8:3' 3237 6' :3' D<34983 4' ;' ?454' <@7 @<'
;24' :@<<934' &&' 8 ' ;' ;< 592;' 53;B92H' 8:3' &;8;5' H;' C3:924' :97,'
55' 8:;8' & 55 ?34' ?;=' :9=' &;@58K' 2 8' 256' 494' :3' D 7 < 79=3' 8:3'
D=97 ;9H2' C6' :9=' 7;<D:' C;D>' 8 ' 8:3' ;==3=' C@8' ?:32' :3' :;4' 49=V
D B3<34' :9=' 79=8;>3' :3' <38@<234' ?98:' ;' =5 ?23==' 8:;8' ?;=' 923GD@=V
;C53,' &' :3' :;4' @=34' <492;<6' 4959H32D3' :3' 79H:8' 638' :;B3' =;B34'
@ 28' 2' 8:3' 292383328:K' 98' ?;=' :9=' :;58' ;8' %@;<< 7;2' ?:953' 8:3'
D;22 2' &' ;6532' ?3<3' 8:@243<92H' 92' :9=' 3;<=' 8:;8' H;B3' 8:3' 5;=8'
&929=:92H' 8 @D:' 8 ' 8:3' 49=;=83<' &' :3' :;4' D 73' @ 2' 8:3' C;8853V
&9354' ;8' 832' 92' 8:3' 7 <292H' 92=83;4' &' ;8' &9B3' 92' 8:3' ;&83<2 2' :3'
D @54' :;B3' ;9434' :9=' D:93&8 ' D@8' :9=' ?;6' 8:< @H:' ;24' 3B32' :;B3'
92&59D834' ;' :3;B6' C5 ?' 2' 3492H' ;24' @ 9H26,' ' D;<3&@5' =8@46'
&' /3435A=' ;D89 2=' &< 7' :9=' &9<=8' ;==;H3' &' 8:3' 93<<;' <32;' 8 ' :9=
=@9 3243<' =: ?=' 8:;8' 2' 3B3<6' ==9C53' DD;=9 2' :38 >' 8:3' ?< 2H'
D @<=3,

@8' 3B32' 9&' ?3' H<;28' 8:;8' /3435' 7;43' 3B3<6' ==9C53' 79=8;>3' 98'
9=' 23B3<8:353==' 8<@3' 8:;8' @ 28' & @H:8' :9=' C;8853' 7 =8' @2=>95&@556,'
&' :3' :;4' 7;<D:34' 2' 8:3' 7 <292H' 92=83;4' &' 8:3' 29H:8' &' -@56' M'
:3' < C;C56' 79H:8' :;B3' C<@=:34' ;=8' 8:3' &< 28' &' 3492H' ;24'
@ 9H26' ?98:' @8' =@&&3<92H' ;26' H<3;83<' 49=;=83<' 8:;2' 8:3' 5 ==' &' :9=
C;HH;H3,' B32' ;=' 8:92H=' ;D8@;556' &355' @8' 98' 9=' 2 8' D3<8;92' 8:;8'
:3' 2334' :;B3' C332' & <D34' 8 ' =@<<3243<,' 3' :;4' # ###' 732' 8:3'
8? ' ;29=:' H323<;5=' :;4' ###' C@8' :;4' C332' & <D34' 8 ' 438;D:'
= 73' I ##' C;6 238=' 8 ' H@;<4' ;H;92=8' 8:3' ==9C53' <3; 3;<;2D3' &'
/3435,' &' @ 28' :;4' <3&@=34' 8 ' ?;=83' :9=' 732' 92', ;<89;5' ;24'
=@DD3==9B3' ;88;D>=' ;24' :;4' 7;==34' 8:37' & <' ;' B9H < @=' ;==;@58'
X9' 8:3' 53&8' ?92H' &' 8:3' ;29;<4=' ?:3<3' @ 9H26A=' =989 2' 2'
8:3' =5 3=' &' 8:3' 3<<;X 2' ?;=' 2398:3<' B3<6' =8< 2H' 2 <' B3<6' ?355'
43&9234 ' :3' 79H:8' 638' :;B3' D@8' :9=',?;6',8:< @H:&8: @H:' < C;C56'
C9=' 977 32=3' C;HH;H3.8<;92' ? @54' :;B3' C332' 5 =8,' 8' 9=' &;9<

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;24 9283<= 3<=34 ?98:C;88;59 2= 53B934 256 &9B3 ?33>= C3& <3 8 ?98:=8;24 8:3 ;88;D> & # ### <32D: 3B32 9& 8:3 5;883< ?3<3 C;456: ;24534 C6 8:39< H323<;5,' :3 24;5@=9;2= :;4 H 4 <3;= 2 8 C3 < @4 &8:39< B9D8 <6 8: @H:8:36 79H:8 :;B3 <3&<;9234 &< 7 D;5592H @ 28A= 3H9 2= &3=3<B3;24 < B9=9 2;5<3H97328= 8:3 T92B92D9C53 8< = &@=83<598R ;24 <9345;24 A ;= 8:36 ?3<3 8 < 23 8 4 ,' :36 :;4 ;8 53;=8 =@DD33434 92,' C3;892H 92 8:3 32 &9354 ;24 D; 8@<92H ;? : 53 <32D:' ;<76 ;8:92H ?:9D:2 D 2892328;5 2;89 2 :;4 ;DD 7 59=:34 =92D3 8:3 ?;<= &8:3 3B 5@V 89 2 C3H;2,'

9< :;<53= /;@H:;2 ;5?;6= 92 =3;<D: &89<=8.:;24 92& <7;89 2 D;5534 2 ;=8;2 = ;24 :;4 ;' 5 2H D 2B3<=;89 2 ?98:' 97 D 2D3<2928H 8:3 2B3289 2,' &924 ;7 2H :9= ; 3<= 8:3& 55 ?92H 2 83= K

T 7 2H 8:3< ;<89D@5;<= &8:3 =@<<3243<,' %323<;5 ;=8;89 = =8;834 8:;8 8:3 <32D:' %323<;5 ;<3=D 8 :;4 8:3 H<3;83=8 92&5@32D3 92 C<92H92H 98 ;C @8,' :3 H<3;8 49&&9D@586 ?;= 8 3<=@;43 8:37 W ;<3=D 8 ;24 :;C3<8] 8 D; 98@5;83 & < /3435 = ;<76 ;= ?355 ;= @ 28A=,' 53883<:;4 C332 9283<D3 834 <43<92H /3435 C;D> 8 ;4<94 ;24 ;2 8:3< <43<92H @ 28 8 <389<3,' :9= 53883< :;4 D 2=943<;C53 3&&3D8 ?98:' 8:3 <32D: K C@8 8:3 &&3< &D;<<692H ;?;6 8:39< C;HH;H3 ;24 8:3 5@243< &8:3 D @28<6 ?;= 2 = 23< 7;43 8:;2 8:3 8? H323<;5= 43=9<34 8 C3 3<7 98834 8 <389<3 ;24 4359C3<;83 ;5 23,' &83< ;&3? 792@83= 8:36 ;DD3 834 8:3 < =;5,' @8 %323<;5 ;=8;2 = 8 7 ;>3 8:3 ;<89D53 &' ;= 598853 B;5@3 ;= ==9C53 H 8 8:37 8 92=3<8 8:3 D5;@=3 8:;8 8:3 <32D:' &&9D3<= =: @54 C3 ;55 ?34 8 37C;<> ;55 8:39< C;HH;H3 fD,' ' 6' ' ' > ' '1& 3 ?355 >23?' 8:;8 8: =3 5;?= & <C94 8:3 3G <8;89 2 &H 54 ;24 =95B3<,' :3 D 2=3J@32D3 ?;= 8:;8 8:3 <32D:' 5 =8 ;55 8:39< 7 <3 B;5@;C53 5@243< ?:32 37C;<>92H ;8 @3<8 ;28;' ;<9;,A

$#M' ' % ' ' E:9

<32D:' ;<76' 92' <8@H;5,' 3& <3' -@2 8' :;4' ?355' <3;59R34' ?:;8' ?;=' :; 3292H' 92' 8:3' 239H:C @<92H' >92H4 7':9=' D 7 7@29D;89 2=' ?98:' ;4<94' ?3<3' =@443256' D@8' ;24' & <' 8:3' &@8@<3' 92& <7;89 2' 256' <3;D:34' :97' ?98:' 8:3' H<3;83=8' 49&&9D@586' ;24' <43<=' 2 8' ;8' ; ;' :3' 5;=8' 49= ;8D:' 8:;8.D;73' 8:< @H:' 8' :97' ?;=' 23' &< 7' 8:3' 7 3< <' ?:9D:' = >3' &' 8:3' C3H92292H=' &' 8:3' <9=92H' ;24' C;43' :97' =324' L ### 732' 8' 9@4;4' 4<9H' 8' :54' @8' ;' :;24' 8' 3==93<3=' ;24' M ### 8' 8:3' %@;49;2;' 8' D . 3<;83' 92' @ 28A=' < X3D834' 92B;=9 2' & 24;5@=9; ;' :3=3' <43<=' ?3<3' 49= ;8D:34' 92' 8:3' 5;=8' 4;6=' & ;6' C3& <3' 8:36' D @54' C3' D;<<934' @8' 8:3' =98@;89 2' :;4' C332' < & @2456' 7 49&934,

2' -@23'N' 8:3<3' ;<<9B34';8' <8' 8:3' 23?=' &' 8:3' 92=@2A3D89 2' &' %;59D9;' ;24' 8:3' 3=8;C59=:7328' &' 8:3' < B92D9;5' -@28;' ;8' <@22;;' :3' &9<=8' 8: @H:8' &' 8:3' 23?' H B3<27328' 92' %;59D9;' :;4' C332' 8' D;55' :73' & <' 98=' ?2' 43&32D3' 8:3' 49B9=9 2' 92' 2 <8:3<2' <8@H;5,' :32' 98=' =@77 2=' <3;D:34' %323<;5' 353=8;' :3' C3634' ?98: @8' ;' 7 7328A=' :3=98;89 2,' :3' 256' <32D:' 23;<' :97' ?3<3' %323<;5' U@3=235' 8:3' % B3<2 <' &' <8' :9=' =8;&&' ;24' ;' 8< ' &' 8:9<86' 4<;H 2=' ?:9D:' =3<B34' ;=' :9=' 3<= 2;5 3=D <8,' 353=8;' =39R34' ;24' 49=;<734' C 8:' 8:3' H323<;5' ;24' :9=' H@;<4' ;24' & <8:?98:' 7;<D:34' & <' ;92' C6' <;H;' ;24' /;532R;' ?98:' :9=' <9= 23<=,' 3& <3' 53;B92H' :3' D;5534' 8 H38:3<' 8:3' 2 8;C53=' &' <8' C;43' 8:37' : 9=8' 8:3' 2;89 2;5' &5;H' ;24' 92D9834' 8:37' 8' 2 792;83' ;' X@28;' 8' <H;29R3' <3=9=8;2D3' ;H;92=8' -@2 8,' @8' :3' 53&8' 2 8' ;' 7;2' C3:924' 8' ;94' 8:37' ;24' 8 >' &&' 599=' ?: 53' & <D3' 8' X 92' %323<;5 5;>3,')*

2' <3D39B92H' 2' -@23' "' 8:3' 23?=' &' 8:9=' @28 ?;<4' 3B328' -@2 8' 4383<7 9234' 8' <3B328' ;<;&&;A=' 8< =' 2' 8:3' ;H@=' &9. 7' & 55 ?92H' 8:3' 3G;7 53' &' 8:39<' D @28<6 7 32,' 3& <3' 8:36' :;4' &@556' <3;59R34' 8:3' =98@;89 2' <' :;4' 89 7 3' 8' D 2D3<8' 73;=@<3=' & <';' H323<;5' 3B;=9 2' :3' =@DD3343 4' 92' 49=;<792H' 8:37,' ;<;&&;' :97=35&' ?;=' =@7 7 234' 8' 8:3' J@;<83<=' &' 8:3' D 7 7;243<.92.D:93&' ;24' 5;D34' @243<' ;<<3=8' C3& <3' :3' >23?' 8:;8' :3' ?;=' =@= 3D834,' &' :9=' <3H97328=' = 73' ?3<3' <43<34' 8' ;8832 4';' <3B93?' 8:3<=' 8' D:;2H3' H;<<9= 2=$' ?:953' @2=@= 3D892H56' 2' 8:39<' ?;6' 8:36' & @24' 8:37=35B3=' =@<< @2434' C6' <32D:' 8< =';<94' ?3<3' 8 54' 8' 5;6' 4 ?2' _:39<';<7=,' 55' ?3<3' =@DV D3==&@556' 8<; 34' 3GD3 8' 8:3' =3D 24' D;B;5<6' <3H97328' 8:3' T U@332A=' ?2A' ?: =3' D 5 235' < 43' &&' 8' <8' ?98:' :9=' 8? ' =J@;4< 2=' 92=83;4' &' C3692H' 8:3' <43<=' =328' :97' ;24' &<;D89 2=' &' 8:3' 92&;28<6' <3H97328=' &' @<D9;';24' /;532D9;' ?:' 3=D; 34' 8' ;4;X R' Ď , &' * &$ S Q '0&< 7' ;6 223' (*' Q"F

-9&83< ;2 923&&3D8@;5 @<=@98 C6 8:3 < D:4<;H 2=, @8 N ###
@8 &' ;<;&&;A= X U 7 32 ?3<3 D;@H:8 49=;2234 ;24 5;D34 2
28 2= &5 <34 @243< 8:3 H@2= &8:3 9=C 2 & <8= ?: =3 D 7 V
7;243<= ::4 <43<= 8 =92> 8:37 9& 8:36 H;B3 ;26 8< @C53, 3<3
8:36 ?3<3 43=89234 8 <37 ;92 <9= 23<= & <8:3 23G8 832 ?33>= 8955
8:3 2H59=:;2A9B34 8 <353;=3 8:37 ;&83<8:3 C;8853 &/97 93<,
593 97 7 92328 4;2H3<8::;8 ;<;&&;A= & <D3 7 9H:8 3256 <3B 58
;24 =3<B3 ;=8:3 2@D53@= & <;H323<;5 <9=92H &8:3 <8@H@3=3 ?;=
8:@= 49= =34 &, @8 -@2 8A= =989 2 ?;= =8955 @2 53;=;285 :3
:;4 256 = 73 $N ## 732 ?98:? : 7 8 : 54 4 ?2 8:3 >92H4 7 K
9& 2D3 8:3 92:;C98;28=8 >;<7=:;& <D3 D @54 2 8 =@ 56
H;9 9= 2= & <3B3<6 D 7 3< &;D @28<6 M## 7 953= 5 2H ;24 ;:@2V
4<34 C< ;4, <3 B3<8:3<3)?;= D 2=943<;C53 < C;C95986 8:;8 8:3
=98@;89 2 7 9H:8 C3 D 7 59D;834 C6 8:3 ; 3;<;2D3 &;2 2H59=:
3G 34989 2;<6 ;<7 6 K ; 53 2 :;4 ?;<234 :9= 593@832;28 8 >33
;D;<3&@5 ?;8D: 2 8:3 =943 &8:3 =3; 3B32 C3& <3 8:3 ;29=:
92=@<<3D89 2 C< >3 @8, 8:< @H:8:3 = <92H ;<989=:& <D3
4<;?2 &< 7 9D956 ?;= ;5<3;46: B3<92H;C @8 8:3 = @8:3<2 D ;=8
&8:3 3292=@5; 8: @H: :98:3<8 98 :;4 256 C332 :3;<4 &92 8:3
49<3D89 2 &%9C<;58;< ;24 ;49R, 2 8:3< D;@=3 &49=J@938@43
?;= 8:3 <3=32D3 92 8:3 ;H@= &8:3 @==9;2 &5338 &4 7 9<;5
929;B92K 8:3 =8<;2H3 ;8898@43 ;4 834 C6 8:;8 &&9D3< 7@D:
3< 53G34 -@2 8, 3 ;D>2 ?534H34 8:;8 :9= 7;=83<8:3 R;<?;=
;8 [?;< ?98: %<3;8 <98;92 ;24 =8;834 8:;8 :3 ?;= <3 ;<34 8
&9H:8*98 8:3 <989=:&5338 8<934 8 & <D3 8:3 328<;2D3 &8:3 ;H@=,
@8 2 8:3 8:3< ::24 :3 ;553H34 8:;8 @==9; ::4 2 8 43D5;<34
?;< 2 <8@H;5 < ;D>2 ?534H34 98= ;223G;89 2 C6 8:3)' 7 3< <
;24 :3 8:3<3& <3 <3&@=34 8 5;24 :9= 7;<923= ;24 =3;732 :35 92
8:3 H;<<9=292H &9=C 2 < 8 ;55 ?8:37 8 C3 @=34 92 ;26 ?;6
2 =: <3, 3;2?:953 :9= D<3?= D 2=@734 ;2 92 <492;83;7 @28 &
8:3 < B9=9 2= ?:9D: ?3<3 2 23 8 53289&@5 92 8:3 <8@H@3=3
D; 98;5,
-@2 8A= 7;92 ;4B;28;H3 5;6 92 8:3 3G8<37 3 7 9598;<6 97 832D3
&' <8@H;5, :;8 <3;57 & @24 98= 23 = 53 D328<3 92 9=C 2
?:3<3 ;8328: &8:3 @5;89 2 &8:3 ?: 53 >92H4 7 ;24 ::5& &
98= ?3;58: ?3<3 D 2D328<;834, 8 9=C 2 ;5 23 ?;= 8:3<3 ;2 ;<=32;5
&;26 =9R3 < ;D 2=943<;C53 =8 <3 &7@=>38= ;24 ?439D, 98: @8
8:3 <3= @<D3= &8:3 D; 98;5 8:3 2;89 2 ?;= ;C= 5@8356 @2;C53 8
3J@9 ;268:92H &98 8 C3 D;5534 ;2 ;<76, <8 ?;= ;= 7;55 5;D3
92 D 7 ;<9= 2 ;24 2 8:3<8 ?2 92 8:3 >92H4 7 :;4 B3< $# ###

$ #' \ ' % ' ' E: - /';A

= @5=,' 57394;' ;24' 5B;='8:3'8?'D:93&&<8<3==3=' &'&:3'<3;57'
?3<3'=;&3'92'8:3':;24=' &' <32D:'H;<<9= 2=,' &93' < B92D3=' 79H:8'
<9=3'C@8'?98: @8'5;B9=:':35'&< 7' ;92' <' 2H5;24'8:36'D @54'
2 8' @8'92'8:3'&9354';2';<76'&'3B32' ###' 732'& <';==37C593=' &'
3;=;28=';<734'?98:' 9>3=';24'&?592H. 93D3=';<3'2 8';<7 93=';24'
&'&9354.;<89553<6'8:3<3'?;=:;<456';' 93D3' @8=943' 9=C 2 5B39=';24'
:2394;,' <'?;=8:3<3'53&8';26'2@D53@=' &'8<;9234'=5493<=';< @24'
?:9D:'8:3'2;89 2',79H:8'<;556'8:3' 54';<76'?;=49== 5B34';24'98='
=7;55'<372;28'?;=' 2'8:3'?;6'8'8:3' ;589D' :3'D;=3' &' ;92'
;24' &' <8@H;5'?;=3289<356'49&&3<328'?:32'8:36'< =3';H;92=8'
; 53 2,' :3'&<73<'D @28<6';?;=92' ==3==9 2' &'8:3'H<3;83<'
;<8' &'98=' ?2'&<8<3==3=':;4'2 8'C332'=6=837;89D;556'49=;<734'
;24'D @54'49= =3 92'%;59D9;';24' 24;5@=9; &'5;<H3'C 493=' &'
B383<;2'8< =,' <8@H;5'?;=?98: @8' ;2' ;<76';2' ;<=32;5';'
43&32=9C53' &<8<3==' <';'53H;5'<H;29R;89 2 D9B95'<'79598;<6 &'
;26'>924,

8'9=' 23D3==;<6'8';<3737C3<'8:9='92' <43<'8';3GD@=3'8:3'@883<'
&33C5323==' &'8:3' <8@H@3=3'<9=92H'92'-973'M#M,' 8:3<?9=3'98'
?@54':;B3'=33734'=8<;2H3'8:;8';'2;89 2' &' B3<'$### ###'=@5='
D @54'2 8';26?:3<3' < 4@D3'&<D3='=@&&9D9328'8';<3=9=8'&<';'=92H53'
4;6';'D 5@72' &'I ###'<'L ###'<32D:'=5493<=,

:3'92=@<<3D89 2 =@D:';'=98'?;= =8;<834'92'8:3'2<8:';?:3<3'
8:3'43 ;<8@<3' &' 353=8;';24':9=49B9=9 2':;4'53&&8'8:3'8?' < V
B92D3=' &' <;=.=. 283=';24' 28<3.@3<.3. 92:' &<33' &<7'
;26'H;<<9=2'<32D:'<' ;29=:,' <8';:;4'C332'C94432'8'/ <>'
@8'98=' ?2'=;5B;89 2'C6' 353=8;';24' 2'8:3'4;6' &':9=43 ;<8@<3'
0-@23'NP';'X@28;' &'92=@<<3D89 2':;4'C332';DD5;973 4,' @8'8:3<3'
& 55 ?34';'D@<9 @=9283<B;5' &';8:6';5;=892H'&<832'4;6=K 8:3'
2;8@<;5'53;43<=' &'8:3' 3 53'<3&@=34'8'D 73'&<?;<4K :3<3'X@='
'92' ;92'8:3'C@<3;@D<;D6'=: ?34'98=35&B3<6'8977 94';24,.@2 ;V
8<9 89D,'j :3'7;H9=8<;83=<=328'=3D<38' &&3<=' &'=@C79==9 2'8'-@2 8K
8:3' 79598;<6'D 7 7;24;28' 59B39<;'4;' =8;':;@534'4 ?2'8:3'
2;89 2;5&5;H'&< 7'8:3'D98;435' &' ;2'- ;'4;' R,' :3'737C3<='
&'8:3' 92=@<<3D89 2;96'X@28;';C=D 2434'&< 7'8:3'D986'<'>3 8'
J@938' 8'?;=' 256' 2'8:3'23?=' 8:;8'&593'239H:C @<92H'49=8<9D8=';24'8 ?2=':;4'<9=32'8:;8'8:3' 3 53' &' <8'8:<3?'8:37=35B3='
&<;2>56'928'8:3'<3C3559 2,' :3'<@H:'7 @28;92'49=8<9D8=' ?:9D:

* <'8:3=3'92D94328='='49=D<3498;C53'8'8:3'53;492H'732'&' <8'=33'
*'%8'Q';24' ,+6%'%' Q' &.' 3292=@5;<':9=8 <9;2='D 2=9H2'8:37'.'
C59B9 2,

M##M]' * 3 / ' 4 , . , 0 ' * ' 1 4 * ' <; ;

5;6' 8 ' 8:3' 3;=8' &' 8:37' =: ?34' ;' 7@D:' 7 <3' ?: 53.:3;<834' ;8<9 89=7K C38?332'8:3'2928:';24'8:3'8?35&8:' &'-9@93'8:3'?: 53' &'8:3' <;=. =. 283='8 >';<7=K 23'X@28;';8' <;H;2R;'2 792V ;834';='D 7 7 ;243<'8:3';H34'%323<;5' 3 @5B34;' ?:' :;4' C332' H B3<2 <' &'8:3'49=8<9D8'92'8:3'4;6=' &'8:3' <92D3. 3H328K ;2 8:3<' ;8' /955;' 3;5' 2'8:3' @<' ';5=' @8'92'98='D5;97';24'D: =3';='98=' 53;4 <' 5 235' 95B39<;' ;2' &&9D3<' ?:' ?;='43=8923X4'8' =33' 7@D:' =3<B9D3'4@<92H'8:3'?;<' &'9243 32432D3,' :@H:'8:3' <32D:'?3<3' 2' &@<8:3<' &&'8:;2' 57394;'8:3'<9B;5'H B3<2 <=' 23;<56'D;73'8' C5 ?='C@8'8:3'&92;592=@<<3D89 2' &' <8 'D<3;834';'23?' ?3<8 ' ?:9D:'C 8:'D 2=32834'8 'C ?,

2'-@23' M'8:3'&;5=3'<3 <8'8:;8';' <32D:'D 5@72';?;='4<;?92H' 23;<' <8 '=' <@=34'8:3'7@5898@43'92'8:;8'D986'8:;8'8:36'C< >3' 5 =3'&< 7'8:3'D 28< 5' &'8:3';@8: <9893='<3: 9=834'8:3' <8@H@3=3' &5;HI8:<3?'928 ' <9= 2' ;' =8;';24'7;26' 8:3<' 3<= 2='=@= 3D834' <9H:856' <'?< 2H56' &';'?9=:'8 '=@C798'8 '8:3'3237 6';24'D;5534' &'<8:3'3=8;C59=:7328' &';' < B9=9 2;5'H B3<2 7328*' DD <492H56' ;'I' @ <373'-@28;' &'8:3'092H4 7'K';='::=8956'353D834'?98:'8:3' 9=: ' &' <8 ';8'98=':3;4,' :9=';=';'=8<;2H3'D: 9D3'&<' 8:3';H34' <35;83' 7' 28 29'43';=8<'8: @H:' 995;<';24' ;8<9 89D';='2398:3<';'=8;83=7;2'2<';2';47929=8<;8<';24'::4' 2'2 89 2'?::;83B3<';='8'8:3'7 9598;<6'23D3==9893=' &'8:3'=98@;89 2,' ?3B3<'8:3' 8:3<'5 D;5'X@28;=' &' <8:3<2' <8@H;5'@29834'92' <3D H29R92H'9=';@8: <986,' 9='D 553;H@3=8;<834' 2'8:3' <H;29R;V 89 2'*C&;2';<76' ?98:'7 <3'R3;5'8:;2'49=D<389 2'8:36'D;5534' @8' 8:3' 795989;'?:9D:'-@2 8' :;4'49=C;2434';24'8<934'8' <3D 2=8<@D8' =73' &'8:3' 54'<3H@5;<'C;88;59 2='C6'H38892H'8 H38:3<'8:3':;5&. ;6' &&9D3<=';24'8:3'732'?:' :;4'C332'49=79==34'&< 7'8:3'D 5 @9.=' 92' 3D37C3<' M# ,' @8'8:36';5='32D @<;H34'8:3';==37C56' &' 8: @=;24=' &' 3;=;28=';<734'?98:'9>3=';24'=D68:3=':?: 'D 2=@734' < B9=9 2='C@8'?3<3' &'2 '7 9598;<6'@=3'?:;83B3<,' 2'8:3'=3B32' ?33>='?:9D:'35; =34'C3&<3'8:3'D 792H'&'8:3' 2H59=:'8:3' @ <373' -@28;' :;4' 256'H 8'8 H38:3<' ###' 732' < 3<56'3J@9 34';24' 8 54' &&'928 '<3H@5;<'D < =' :3'&;D8';='8:;8'8:36'D @54' < V B943';<7='& <'2 '7 <3' <8:3<2' <8@H;5':;B92H';5?;6=5 >34'8 ' 9=C 2'& <'98='=@ 593=,' 9354';<89553<6';';57 =8':' 556';2892H' , 3<:; =';'4 R32'H97='92';55':;4'C332'& @24K &'D;B;5<6'8:<33

* :36'<3.37C 4934'8:3'54' 24' $8:'$ =8';24'$L8:'C;88;59 2=' &'92&;28<6' &'8:3'5923'8:3'%8:. ;R;4<49='24'8:3'□8:' 8:';24' 8:'59H:8'D;B;5<6';=' 355';=' 23' <'8?' 8:3<' 54'D < =' ?: ='32@7C3<='D;22 8'943289&6,

□

$ $ % ! K& E: - $

=>3538 2 <3H9 7 328= ? 3<3 C3H92 2 92H 8 f C3 <H ; 29R34, @8 &C ; 5&. ; < 7 34 3 ; = ; 28<6 49=H@9=34 @243< 8 : 3 2 ; 7 3 & 7 95989 ; 8 : 36 : ; 4 &< 7 $ ### 8 ### 92 8 : 3 &9354,

: 3 @ <3 7 3 - @ 28 ; 5= D 2D5@434 ; 8<3 ; 86 & &&32=9B3 ; 24 43&32=9B3 ; 559 ; 2D3 ? 98 : 8 : 3 % ; 59D9 ; 2 ; 29 ; <4= &< 7 ? : 7 8 : 36 : 34 8 H48 ; < 7 = ; 24 3<: ; = ; 5 ; 2 & 8< =, <3 B3< 8 : 36 =328 8 ? 32B 6= 8 2H5 ; 24 8 ; =>& < ; 94 ; 24 3 ; H3<56 ? 35D 7 34 ; 8 <8 5 235 < ? 2 ; <989= : ; H328 ? 98 : ; < B92H D 7 7 9=V =9 2 ? : 494 : 9= C3=8 8) ; ==9=8 92 <H ; 29R92H 8 : 3 23? 53B93=, : 3 D 7 7 ; 24 &8 : 3 ? : 53 ; <7 34 & <D3 ? ; = H9B32 8 %323<; 5 3<2 ; <V 492 <39<3 ; <383289 @= ; 24 92D ; C53 3<= 2 ? : 8@<234 : 9= B3<6 7 43<; 83 <3= @<D3= 8 2 9A &98 ; C53 ; DD @28 ? : ; 83B3<, ; &3? 4 ; 6= 5 ; 83< 8 : ; 2 8 : 3 @8C<3 ; > &8 : 3 92=@<<3D89 2 92 8 : 3 <3H9 2= 2 <8 : &8 : 3 @< 8 : 3<3? ; = ; D <<3= 2492H 7 B3 7 328 C@8 &; ? 3 ; >3< >924 92 8 : 3 3G8<3 7 3 = @8 : , 2 -@23 N 8 : 3 = 7 ; 55 &9= : 92H.8 ? 2 &5 : ; 92 5H ; <B3 H ; B3 8 : 3 =9H2 ; 5 & <3B 58K 2 8 : 3 39H : 83328 : ; < 8 : 3 D ; 98 ; 5 &8 : 3 < B92D3 & 55 ? 34 8 : 3 3G ; 7 53, %323<; 5 ; 9 7 92 8 : 3 % B3<2 &5H ; <B3 ? ; = 5692H 955 92 : 9= C34 : 3 ? ; = 7 ; 43 <9= 23< ; 5 2H, ? 98 : =3B3286 8 : 3< <32D : &&9D3<= ; 24 7 32 ; 24 : ; 2434 B3< 8 8 : 3 D ; 8 ; 92 &; 2 2H59= : = : 9 ? : 9D : ? ; = : B3<92H &&8 : 3 D ; =8, : 3 ? : 53 = : <3 C38 ? 332 8 : 3 93<<; 43 ; 5439<; ; 24 8 : 3 =3; 8 > ; <7 = ? : 3<3@ 2 5 235 ; <; 2=92 ; @<92 = =3D 24.92.D 7 7 ; 24 <3= 5B34 8 3B ; D@ ; 83 8 : 3 < B92D3, 3 : ; 4 256 $## 732 ; C ; 88 ; 59 2 3 ; D : &8 : 3 $N8 : 8 : 3 5923 ; 24 8 : 3 H * ; 24 : ; 4 5 =8 : 9= D 7 7 @29V D ; 89 2= ? 98 : 9=C 2 ? : 3<3& <3 : 3 4<3? 8 H38 : 3< : 9= = 7 ; 55 & <D3 ; 24 &355 C ; D> &9<=8 2 3<8 5 ; ; 24 8 : 32 2 3X ; 92 8 : 3 53 7 83X , : 3 92=@<H328= ? : 7 : 3 53&8 C3 : 924 : 97 D @54 4 598853 8955 8 : 36 : ; 4 C8 ; 9234 7 @=>38= &< 7 3B9553 ; 24 %9C< ; 58 ; < ; 24 7 ; 43 2 ; 883 7 8 8 & 55 ? 8 : 3 <38<3 ; 892H D 5@ 7 2 2 <8 : ? ; <4=,

3 ; 2 ? : 953 - @2 8 3B32 ; &83< : 3 : ; 4 =@DD33434 92 49= ; < 792H ; <; &&; = ; 29= : 49B9=9 2 ? ; = ; ==92H 8 : < @H : ; 7 =8 ; 2G9 @= 897 3, 2 C34932D3 8 8 : 3 7 3< <= <43<= : 3 : ; 4 =328 ; C<9H ; 43 9 7 43< %323<; 5 B<U 8 ? ; <4= 24 ; 5@=9 ; 8 : 35 @ 28 ; 24 ; 2 8 : 3< @243< 9= 2 8 5 7 394 ; 8 32 D)&99 7 @29D ; 89 2= ? 98 : 3==93<3=, @8 8 : 3=3 438 ; D : 7 328= : ; 4 C332 7 ; 43 @243< 8 ? & ; 5=3 943 ; 8 : 3 23 8 : ; 8 8 : 3 8< @C53= 92 ; 92 ? 3<3 @<356 5 D ; 5 8 : 3 8 : 3< 8 : ; 8 <8@H ; 5 ? @54 >33 J@938, B<95 7 ; <D : 34 = @8 : ? ; <4 ? 98 : I ### 732 C@8 ? : 32 : 9= B ; 2H@ ; <4 <3 ; D : 34 ; 2 @D ; < 2 8 : 3 ; 29= : C <43< : 3 & @24 24 ; 5@=9 ; 2 7 95989 ; < B9434 ? 98 : ; <89553<6

;AFA$ $ 8 & 1 ,0 ($" < ;=

? ;8D:92H :97 ;D< ==8:3 %@;49;2;, 3 ;5= 53;<28 8:;8 ;5;<H3 & <D3 ?;= ;==37C592H \;8 ;4;X k X;<94 8:;8 @ 28 :;4 H 8 2 &@<8:3< 8:;2A <4 B;.[.7 63 8:;2 #7953= ;?;6, &83< = 73 :3=98;89 2 :3 <38&;D34 :9= =83 = 8955 :3 :;5834 ;8 =8<37 R &;D92H ;4;X R, 9= 2 :;4 7@D:8:3 =;73 3G 3<932D3K =8;<892H &< 7 57394;:3 D< ==34 8:3 C <43< ;24 =D;<34 ;?;6 8:3 =7;55 ;29=:H;<<9= 2 &<8 2D3 D9 2K C@8 ?:32 :3 4<3?9 23;< 9@4;4 4<9H ;24 53;<28 8:;8 8:3 5;D3 ?;= =8< 2H56 :354 8:;8 ;55 8:3 >92H4 7 &3 2 ?;= 92 <3B 58 ;24 8:;8 3==93<3=) ?;= =8955 &;< 49=8;28 92 54 ;=8953 :3 4<3?C;D> 8 57394;W-973 $.], 38@<292H 8:98:3< :3 :3;<4 &8:3 8< @C53= 92 <8:3<2 <8@H;5 ;24 <3= 5B34 8 7;<D: 2 <8 ?:9D:?;= =89 : 5492H C;D> &< 7 32 92=@<<3D89 2 ?:32 8:3 23?= <3;D:34 :97, 3 4383<V 79234 8 :;=832 8 8:;897 <8;28 D986 ;24 8 H;<<9= 2 98, ;>92H 8? C;88;59 2= ;<94 ;&3?H@2= ?:953 :3 53&8 8:3 <3=8 &:9= C<9H;43 ;8 57394;:3 7;<D:34 2 <8 D< ==34 8:3 97 ;8 8:3 &3<<6 &3R .43. ;H ;;24 C3H;2 8 7 B3 2 7;<;283 W-@23 $], @8 8:3 7 7328 8:;8 :3 ?;= B3< 8:3 <9B3< :3 & @24 :97=35& 92 8:3 79445 3 &8:3 92=@<<3D89 <9K ;7 2H 8:3 7 @28;92= 8:3 3;=;28<6 C3H;2 8 &9<3 &< 7;C B3 2 :9= 5 2H D 5@72 8 9< 55 < D>= 4 ?2 8:3 =5 3= ;8 :97 ;24 8 :;<;== :9= C;HH;H3 ;24 <3;<H@;<4, 3392H 8:;8 :3 :;4 256 $ ### 732 92 :;24 ;24 8:;8 8:3 ?: 53 D @28<6V =943 ?;= @ 9= 2 ?9=356 <38@<234 8 57394;? :9D:3 <3H;9234 C6 ;D9<D@5;< 7;<D: 8:< @H: ;73H ;24 35 <9D 49= 3<=92H =3B3<;5 C;24= &92=@<H328= 2 8:3 ?;6 & < 8:3 <3C3559 2 :;4 ;5<3;46 C3H@2 8 = <3;4 ;D< ==8:3 @< 928 8:3 :9 = & <8:3<2 39<;W-@56],

9=C 2 92 8:3 73;2?:953 ?;= 2 8:3 B3<H3 &<3B 58 C@8 ?;= =89 D 28;9234 C6 8:3 &;D8 8:;8 -@2 8 :354 D 2D328<;834 92 ;24 ;C @8 98 8:3 7;92 C 46 &:9= ;<76 = 73 ### 732, 2 8:3 3;=8 & < @= :<9=89 0-@23 N 8:3 ;22@;5 <359H9 @= < D3==9 2 8:< @H:8:3 =8<338= 23;<56 534 8 C5 4=:34, :9= ?;= 8:3 H<3;83=8 &3=89B;5 & 9=C 2 ;24 :;4 ;5?;6= 534 8 8:3 ;==37C56 &32 <7 @= D< ?4=K -@2 8 ;55 ?34 98 8 C3 2D3 92 <3 D353C<;834 C@8 59234 8:3 =8<338= ?98:= 5493<= 8 ;24 5;D34 ;<89553<6 <3;46 & <;D89 2 92 8:3 7;92 =J@;<3= ;24 ;B32@3=, :953 8:3 &87D89 2 ?;= 92 < H<3== ;=32=353== ;29D C< >3 @8 ;7 2H 8:3 D< ?4 = 73 =: @892H 8:;8 8:36 &358 ;= : D> &3;<8:J@;>3 0;5?;6= ;83<< < 92 9=C 2 =92D3 8:3 D;8;=8< :3 & P 8:3<= 8:;8 8:3 2H59= :?3<3 5;2492H 8:3<= 8:;8 8:3 = 5493<= ?3<3 ;C @8 8 &9<3 2 8:3 3 53, :3 &<;289D

$ L‘ ‘ % ‘ ‘ E: - /‘$N

7 C‘C@<=8‘8:<@H:‘8:3‘7 9598;<6‘D <4 2‘8:3‘ < D3==9 2‘?;=‘C< >32‘ @ ‘8:3‘ <35;83‘?: ‘C <3‘8:N‘ ;D<;7 3255 8 >‘<3&@H3‘92‘ ;‘D:@<D:‘ ;24‘8:3‘8@7@58‘H<3?‘= ‘?954‘8:;8‘8:3‘ ;<89553<6‘?3<3‘ ;C @8‘8 ‘ 32‘ ?98:‘H<; 3‘8:92>92H‘8:;8‘8:36‘:;4‘8 ‘43;5‘?98 ‘ ;‘D;<3&@556‘ <3V ;<34‘92=@<<3D89 2,‘ ‘H<3;8‘;24‘79=D355;23 @=‘=5;@H:83<‘?;=‘ 256‘ <3B32834‘C6‘8:3‘D 523==‘ &‘-@2 8‘?:‘8:<3?‘:97=35& 928‘8:3‘ 8:< 2H‘ <3B32834‘8:3‘8< =‘&< 7‘&9<92H‘D53;<34‘8:3‘=8<338‘ <3V B;9534‘ 2‘8:3‘D53<H6‘8‘&929=:‘8:3‘ < D3==9 2‘ ;24‘49= 3<=34‘8:3‘ 7995898@43=‘?98:‘2 ‘5 ==‘ &‘59&3‘=;B3‘8:;8‘ &‘;‘&3?‘ 3<= 2=‘D<@=:34‘ <‘8<;7 534‘8 ‘43;8:‘92‘8:3‘ ;29D,

@8‘8: @H:‘8:9=‘8@7@58‘ ;==34‘ ‘?98: @8‘ ;‘49=;=83<‘-@2 8&=: =989 2‘?;=‘97D 7& <8;C53,‘ 3‘:;4‘X@=8‘C3H@2‘8 ‘<3;59R3‘8:3‘ <3;5‘ < <89 2=‘ &‘8:3‘92=@<<3D89 2‘92‘ ;92‘?:9D:‘:;4‘2 ?‘ D 7 538356‘D@8‘:97‘ &&‘&9K 7‘D 7 7@29D;89 2‘?98:‘:9=‘D 553;H@3=,‘ 3‘:;4‘256‘8:3‘B;H@3=8‘>2 ?534H3‘ &‘: ?‘ @ 28‘;24‘ 3==93<3=‘ ?3<3‘&;<92H&‘ ;24‘8:3‘&;D8‘8:;8‘5;<H3‘ ;29=:‘& <D3=‘?3<3‘H;8:3<92H‘ C 8:‘;8‘ 9@4;4‘ 4<9H ‘;24‘;8‘ ;4;X R‘92D59234‘:97‘8 ‘8:92>‘8:;8‘ ;&&;9<=‘7@=8‘C3‘H 92H‘955‘92‘ ;=8953‘;24‘ 24;5@=9;,‘ :3‘5 2H.‘ &3;<34‘ 2H59=:‘92B;=9 2‘=337 34‘;8‘5;=8‘8 ‘C3‘H< ?92H‘97 7 92328K %323<;5j 32D3<)=‘49B9=9 2‘&< 7‘ 9D956‘;24‘%9C<;58;<‘?;=‘&98‘=3;‘ ;24‘:;4‘=: ?34‘98=35&‘&9<=8‘ &&\ 6;7 283‘;24‘8:3‘D ;=8‘ &‘ 5H;<B3‘ 8:32‘ &&‘8:3‘ ;H@=.7 @8:,‘ H2 <;28‘8:;8‘ 32D3<‘:;4‘ 256‘N ### 732‘;24‘8:;8‘:3‘:;4‘C332‘C< @H:8‘23;<‘ 9=C 2‘73<356‘C6‘;‘&;5=3‘ <3 <8‘8:;8‘8:3‘H;<<9= 2‘:;4‘C332‘D@8‘4 ?2‘8‘;‘:;24&995‘-@2 8‘ 3G 3D834‘;‘49=37C;<>;89 2,‘ @8‘ 32D3<‘?328‘C;D>‘8 ‘ ;49R‘?:32‘ :3‘53;<28‘8:;8‘8:3<3‘?3<3‘ ### 92=83;4‘ &‘L ### 732‘<3;46‘8 ‘ 43&324‘8:3‘D; 98;5,

3;2?:953‘8:3‘ @5;D3‘ &‘ 9=C 2‘?;=‘=89<<34‘@ ‘C6‘;55‘7;223<‘ &‘?954‘<@7 @<=K 98‘?;=‘=;94‘8:;8‘ 9= 2‘:;4‘C332‘=@<< @2434‘;24‘ & <D34‘8 ‘=@<<3243<‘C6‘8:3‘2 <8:3<2‘92=@<H328=‘8:;8‘8:3‘ ;29=:‘ ;<76‘ &‘%;59D9;‘?;=‘7;<D:92H‘= @8:‘8:;8‘;2‘ 2H59=:‘D < =‘:;4‘ 5;2434‘;8‘ <8,‘ 55‘= <8=‘ &‘ <8328=‘;24‘=9H2=‘?3<3‘<3 <834‘ & <‘8:3‘C323&98‘ &‘8:3‘=@ 3<=8989 @=,‘ :3‘7 =8‘ <3 =83< @=‘?;‘ 23‘?:9D:‘?3‘=: @54‘<3&@=3‘8 ‘D<3498‘9&‘98‘?3< ‘;2 8‘B @D:34‘& <‘C6‘ 6‘;24‘ 8:3<‘<3= 3D8;C53‘ <32D:‘;@8: <9893=,‘ ‘:32K=‘3HH‘?;=‘ & 794‘ 2‘8:3‘:9H:.;58;<‘ &‘8:3‘ ;8<9;<D:;5‘D:@<D:‘?98:‘8:3‘92V =D<9 89 2‘ ‘ ‘ OT‘ 3;8:‘8 ‘8:3‘ <32D:AP‘92432834‘ 92‘98=‘=:355,‘ :9=‘D;@=34‘=@D:‘3GD983732‘8:;8‘;8‘-@2 8‘8: @H:8‘98‘ ?<8:‘?:953‘8 ‘=: ?‘8:;8‘;‘=9795;<‘:32 732 2‘D @54‘C3‘< 4@D34‘ 2‘;26‘3HH‘C6‘;‘=>95&@5‘; 59D;89 2‘ &‘;D94=,‘ :32‘:9=‘D:379=8=

3G:9C9834 =3B3<;5 C<;2434 92 ;2 3J@;556 D 2B92D92H ?;6 ?98:8:3 ? <4= J J) ! K 328:@=9;=7 &8:3 D<34@5 @= ?;= = 73?:;8 4;7 34:

3D H29R92H 8:;8 :3 D @54 3G 3D8 2 &@<8:3<1:35 &< 7 8:3 9K32D:;<793= 92 ;92 ;24 8:;8 8:3 92=@<<3D89 2 ? @54 D3<8;9256 = <3;4 B3< 3B3<6 ;<9=:& <8@H;5 8:;8 494 2 8 D 28;92 ;H;<V <9= 2b -@2 8 ?9=356 <3= 5B34 8 D 2D3289);83 8:3 @85692H &<;D89 2= &:9= ;<76 ?:9D:5;6 3G =34 ;24 9= 5;834 ;8 928= &;< &< 7 9=C 2, 8 ;D @2D95 &?;<:354 2 -@23 $:3 5;94 C3& <3 :9= D:93& &&9D3<= 8:3 ;583<2;89B3= &3B;D@;892H <8@H;5 ;24 <389<92H 2 ;4<94 C6 8:3 ?;6 &;4;X R <&@29892H 8:3 ;<76 92 8:3 239H:C @<: 4 &9=C 2 ;24)7;>92H ;2 ;8837 8 8 :54 328<;5 <8@H;5 ?:953 ;C;24 292H 8:3 3G8<37 3 2 <8:;24 =@8:, :3 5;883< 5;2 ?;= @2;297 @=56 ;4 834 K 92 8:3 =8;83 &9H2 <;2D3 92 ?:9D:8:3 H323<;5= 5;6 ;= 8 ?:;8?;= H 92H 2 ;8 ;49.94 ;24 35=3?:3<3 92 ;92 8:3 <38<3;8 C6 ;4;X R =337 34 8 :;R;<4 @=, <3 B3<98 ?;= D3<8;92 8 < B >3 ; 53 2A= ?<;8:9&98 8@<234 @8 8 :;B3 C332 @223D3==;<6, DD <492H56 98 ?;= <3= 5B34 8 5;D3 H;9 9= 2= 92 8:3 & <8<3==3= &5B;= 5 7 394;:24 329D:3 8 & <89&6 38@B;5 2 8:3 3292=@5;=983 9=C 2 ;24 8 4<;?92 ;55 8:3 <3=8 &8:3 8< = 8 8:3 B9D92986 &8:3 D; 98;5, 9= ;8D:3= 8 8:9= 3&&3D8 ?3<3 =328 8 29= 2 ;8 57 394;8 B<95 ;8 =8<37 R 8 ;<;2=92 ;8 3<8 5;:24 8 0 3553<7;22 ?:?;= ?;8D:92H ;4;X R &< 7 5B;=`, ;26 &8:3 ;943=.43.D;7 ?:C <3 8:3=3 <43<= ?3<3 D@8 &&C6 8:3 92=@<H328= C@8 92 8:3 324 D 93= &3;D:49=V ;8D:?3<3 8<;2=7 98834 8 8:39<43=892;89 2=, 2 =3B3<;5 92=8;2D3= 8:3 438;D:34 D <= :;4 C3H@2 8 &;55 C;D> 2 8:3 ;H@= 3B32 C3& <3 8:36 <3D39B34 8:3 D 7 7;24 8 4 = ,

:9= ?;= 8:3 D;=3 ?98: ;<;2=92 ;8 3<8 5; ?: &92492H :97=35& : 353==56 9= 5;834 ?98: $##7 32 92 8:3 D3289.3 &8:3 92=@<<3D89 2 :;4 7 <D:34 2 9=C 2.B9&5, 3X;, 2 -@23 $N :3 <3;D:34 8:3 5;883< 5;D3 ;24 & @24 98= ;2D932 ?;55= 7;2234 C6 ;49= <43<56 7;== &D989R32= ?: &9<34 @ 2 :97;= :3 4<3?23;<, @8 :3 =8 <7 34 8:3 8 ?2 ?98: @8 7 @D:49&&9D@586 D<@3556 =;D>34 98 ;24 <3=@7 34 :9= 7;<D: 2 <D:3 2 9=C 2 @2:;<7 34, :9= ?;= 2 8 8:3 &9<=8 &9H:892H 8:;8 :;4 DD@<<34 92 8:3 537 83X S & @<4;6= C3& <3

* 6 9B, $ N S ; 93< 9, " ,

* < 8:3 8?35B3 <3= 5@89 2= ;<<9B34 ;8 C6 8:3 D @2D95 &?;<=33 8:3 ;2;56=9= H9B32 C6 :9 ;@58 23 &98= 232;C3<=,

6 =;6= 8:;8 &8?3286 73==;H3= =328 8 9= 2 256 23 H 8 8:< @H:,

$ N' ' % ' ' E: - '?

B<95' :&94' : ;4' 8 ' 92 ;<D :' &< 7 ' =8<37 R' 8 ' D : ;=89=3' 8 : 3' 92 : ;C98 ;28=' &' / 955 ;' / 9D9 =; ' ? : ' : ;4' 8 ;>32' ;<7=' ;24' C3=93H34' 8 : 3' D 7 ;26' &' 8 : 3' MN8 :' <3H9 7 328' ? : 9D :' H ;<<9= 234' 85939<' 8 ? 2,' 3' =D ;883<34' 8 : 3 7 ' ? 98 :' 7 @D :' =5 ;@H : 83<' ;24 ' ;&83<' 8 : 3' @=@ ;5' <32D :' &; = : 9 2 ' 5@243<34' 8 : 3' 598853' 5 ; D3' &< 7 ' D355 ;<' 8 ' H ;<<38,

2' <3D39B92H' - @2 8&=' <43<=' %323<;5' 0 3553< 7 ;22 ' ? : ' C <3' 8 : 3' D5993&' D 7 7 ;24' 2' 8 : 3' 53 7 83X ' 53&8' ;' C ;88 ;59 2' ;24' ;' : ;5&* ' L##' 7 32 92' 5B ;=' ;24' 98=' @85692H' .& <8' &' ;' 9 3,' 98 : ' 8 : 3' <3=8' : 3' <389<34' 2' 9=C 2 ' 9D>92H' @ ' &9<=8' 8 : 3' D < =' &' B<95' ;24' 8 : 32' 8 : ;8' &' ;<; 2=999X' ? : 9D :' 7 38' : 9 7 ' ;8' B <;,' 3' 8 : 32' 3283<34' 8 : 3' D; 98 ;5' 53 ;B92H' 256' 23' C<9H ;43 ' 8 : ;8' &' %<;924 <H3 ' ;8' 38@B ;5 8 ' 8 : 3' = @8 :' &' 8 : 3' ;H@=' W - @56' I -,

9= 2' 92' 8 : 3' 2 <8 :' 494' 2 8' <3D39B3' : 9=' <43<=' & <' ;' &@55' ?33>' ;&83<' 8 : 36' ?3<3' =328' @8 ' ?92H' 8 ' 8 : 3' 49= <43<56' =8 ;83' &' 8 : 3' 9283<V B3292H' D @28<6,' @8' 2' - @56' L' : 3' 53&8' 5 7 394 ; ' ;&83<' 7 ;>92H' & <' 98' ;' H ;<<9= 2' &' $##' 7 32 ' C6' 4<;&892H' 928 ' ;' < B9=9 2 ;5' C ;88 ;59 2' ;55' : 9=' = 5493<=' ? : ' 494' 2 8' =33 7 ' &98' & <' & 9AD34' 7 ;<D : 92H,' 3' 8 : 32' 7 B34' & <' =3B32' 4 ;6=' 8 : < @H :' 8 : 3' 7 @28 ;92=' &' 39<;' 8 ' C<;283=' =>9< 7 9= : 92H' ? 98 :' = ;55' C ;24=' &' 92=9@.H328=' ;55' 8 : 3' ? ;6,' 8' 8? ' <' 8 : <33' 5 ; D3=' 8 : 36' 8<934' 8 ' C5 D>' : 9=' ;8 : ' ;24' 8 : 3' 8 ? 2' &' %@ ;<4 ;' 7 ;43' ;' =3<9 @=' ;883 7 8' 8 ' 43&324' 98=35&' ;24' ? ;=' 92' D 2=3J@32D3) = ;D>34' ;24' ;<856' C@<28,' 3 ;B92H' ;' 8<;95' &' <@9234' B955 ;H3=' C3 : 924' : 9 7 ' 9= 2' ;8' 5 ;=8' <3 ;D : 34' C<;283=' ;24' H 8' 928 ' D 7 7 @29D ;89 2' ? 98 :' : 9=' D : 93&,' 3' : ;4' 5 =8' 2' 8 : 3' ? ;6' $##' 7 32 ' 7 =856' =8<;HH53<=' ? : 7' 8 : 3' 3 ;= ;28<6' 7 @<43<34K' C@8' : 3' : ;4' 92&59D834' =@D :' ;' D<@ ' 53== 2' 2' 8 : 3' D @28<6.=943' 8 : ;8' : 9=' @5 ;<' 29D>2 ; 7 3' > T' 23. ;24' AP' ? ;=' : 354' ;DD@<=34' & <' 7 ;26' 63 ;<=' 92' <8@H ;5,

: 3' ? 98 : 4<; ? ;5' &' 8 : 3' <32D :' 8< =' &< 7' 8 : 3' @85692H' < B92D3=' H ;B3' 8 : 3' 92= 7 .<3D89 2' &@55' =D 3' & <' 43B35 7 328,' 8' & 55 ? 34' D5 =3' 92' 8 : 3' 8<;D>' &' 8 : 3' <389<92H' D 5@ 7 2=' ;24' ;=' 3 ;D :' B ;5536' ? ;=' 3B ;D@V ;834' 98=' 92 : ;C98 ;28=' : 9=834' 8 : 3' 2 ;89 2 ;5' &5 ;H' =328' 92' 8 : 39<' B ? =' &' ;553H9 ;2D3' 8 ' 8 : 3' - @28 ;' ;8' <8 ' ;24' C3H ;2' 8 ' <H ;29R3' ;<7 34' C ;24=,' @8' 8 : 3<3' ? ;=' =@D :' ;' 43 ;<8 :' &' 7 9598 ;<6' =8 <3=' 8 : ;8' B3<6' &3 ?' 7 32' D @54' C3' < 3<56' 3J@9 34' ? 98 :' 7 @=>38' ;24' C ;6 238,' - @2 8' : ;4' 5 2H' C3& <3' D ;5534' 92' 8 : 3' ;<7=' &' 8 : 3*' 49=C ;2434' 7 95989 ;' ;24' 43=8< 634' 8 : 37 ' <' & <? ;<434' 8 : 37 ' 8 ' 9=C 2,' 2' 8 : 3' = @8 : 3<2' < B92D3=' 8 : 3' 5 ;D>' &' ?3 ; 2=' ? ;=' 3B32' ? <=3' 8 : ;2' 92' 8 : 3' B ;5536' &' 8 : 3' @< K' 8 : 3<3' ? ;=' <;D89D ;556' 2 ' ;<7 ; 7 328' 3GD3 8' ;' &3 ?' : @24<34' 7 @=>38=' : ;=8956' C << ?34' &< 7 ' 8 : 3' ;29 ;<4=' &' ;4 ;X R*' ' : 3' $24' ?9=' ;24' & 28' D 7 ;293=' &' 8 : 3' MN8 :' <3H9 7 328*

M##M] % % % $

;24 3B9553 ;24 ;= 7 ;55 43 8 &D;B;5<6 3J@9 7328 ;8 =89A37 R ?:9D: B<95 :;4& <H 8832 8 D;<<6 &&, 2 92=@<<3D89 2;<6X@28;& <8:3 5378 3X ?;= & <7 34 ;8 B <; C@8 98= H323<;5 <;2D9=D 3983 D @54 256 =@DD334 92 3J@9 92H 8:3 73<3 =:;4 ?& ;2 ;<7 6, 2 8:3 2 <8:8:92H= ?3<3 ;598853 C3883<K 8:3 <9=92H = <3;4 8 97C<;92 8:3 5;=8 ?33> & -@23 ;24 23 & 98= &9<=8 53;43<= 8:3 =8@4328 3<2;<4 Q;H;5 =@DD33434 92 D; 8@<92H 8: =7;55 D ;=8.& <8<3== & 9H@39<;C6 =8;<B92H @8 8:3 =D;286 <32D:H;<<9= 2 ?:9D: :;4 C332 D;@H:8 ?: 556 43=898@83 & < B9=9 2= W-@23 $], 3<2;<492 <39<3 8:32 C< @H:8 @ 8:3 #U# <3H@5;< 8< =?:9D: 8:3 -@28;& <8 :;4 =@DD33434 92 H38892H 8 H38:3< ;=) &;< ;= 8:3 5923 & 8:3 243H , @8 8:3 92=@<<3D89 2;9<6 ;<3;= <3;4 7@D:&@<8:3< = @8:?;<4 3B32 @ 8 36<9; ;24 : 7;< ?:9D:593 2 7 <3 8:;2 =9G86.&9B3 7953= &< 7 8:3 D; 98;5, < 7 8:3=3 8? 5;D3= : ?3B3< 8:3 <3C35= ?3<3 3;=956 D53;<34 @8 C6 ;= 7;55 3G 34989 2 &M ###7323 @243<%323<;5 ;<H;< 2W-@56N], -@2 8A= ;<76 92 8:3 =3D 24 ?33> & -@56 :354 2 8:92H @8=943 8:3 2;<< ?J@;4<;2H53 & ?:9D: 38@B;5 329D:3 C<;283= ;24 9=C 2 & <7 8:3 & @< 928=, @8 ?98:92 8:;8 597 9834 = ;D3 8:3<3 ?3<3 2 ?$L ###H 4 8< = D 2D328<;834 ;24 <3;46 8 =8<9>3 ;C5 ?;8 8:3 &9<=8 92=@<<3D89 2;<6 & <D3 8:;8 79H:8 <3== 92 @ 2 8:37, @8 & <;& <829H:8 8:3 <8@H@3=3 7;43 2 &@<8:3< 7 B3 ;24 -@2 8 2 ?<3= 5B34 8 ;88;D> 8:3 92=@<H328= ?: 5;6 C36 24 8:3 ;H@= 92 8:3 5;92= & 8:3 537 83X , 9= D:93& 7 89B3 =337= 8 :;B3 C332 8:3 ?9=:8 <3 32 :9= D 7 7 @29D;89 2= ?98: 5B;= ;24 8 >33 8:3 ?;6 D53;<8 ?;<4= ;4;X R 8:3 49<3D89 2 92 ?:9D: :3 ? @54 :;B3 8 <38<3;8 9& 3B3< :3 7;43 @ :9= 7924 8 3B;D@;83 9=C 2 ;24 <389<3 2 ;92, DD <492H56 2 -@56 $:3 =328 @8 8: 323<H389D 9= 2 ;8 8:3 :3;4 & ;=8< 2H &5692H D 5@72 =3B32 ;24 ;: ;5& ;88;59 2= 8? <3H97328= & 4<;H 2= ;24 39H:8 H@2= B3< ###7 32 92 ;55> :9= & <D3 ?;= 49<3D834 8 7;<D: 2 5B;= C6 ?;6

* :3 D 5@72 D 7 <9=34 8:3 & 55 ?92H 8< = K
? C;88;59 2= & 3=3<B3 %<32;493<= ; ; ; ; ##
$8: H3< 0I<4 C ; 8 8 , P ,,,

$ M % W @ ; I

&BD9<; 8:3D; 98;5&8:3 5378 3X ;24 8:3=3;8 &98=23?-@28;
2-@56 $"= 9= 2 ; 3;<34C3& <38:3?;55= &8:;8D986, :9=
=9@ <9=38:3232376 & 3<34:97C;8853922 8:3 325%323<;5 3983
:;4C< @H:8@ =@D: &:9=23?56 <H;29R348< =;=:3D @54
D 553D8 8:36;7 @2834 8 2 7 <38:;2;;C;88;59 2;24;:;5& &
92&;28<6;24 $#: <=3$C@8 8 :35 :97 8:3<3:;4D 73@ 8& 7
;4;X R8:3 ;29=: 5 235 <3889?98: ;C @8 8:3=;73 2@7C3<
&& 8 ;<3H97328 &<3H@5;<D;B;5<6 08:3 @==;<= & ;<9; @9=;AP
;24 =3B32 H@2= 2 ; 8:3;5593= :;4@243<I ### 9232 C@8 8:36
?3<3 <3=@7 8@ @= 32 @H:8 & <7;5923 &C;8853 @8=943 B <;
;24?;98& < 9= 2A=;88;D>, 7 9G34 7 @5898@43 & 3;=;28=;24
D989R32=7 <3 &8:37);<734?98: 9>3=8:;2?98:& ?592H. 93D3=
7;2234 8:3?;55= &8:38 ?2C3:924 8:37, 3983;24 :9=D 5V
53;H@3=: @54:;B3 4<;?2C;D>8:39<3H@5;<=8 8:3=;73 =989 2K
8:36 79H:8 :;B3 C332 ;C53 8 4 = 738:92H C3:924?;55=C@8 8
3G =3 8:37 92 8:3 32 8 8:3;==;@58 &7 <3 8:;24 @C53 &
8:39< ?2 2@7C3<= &<32D:8< =?;=;C=@<4,)

9= 2A=&9<=8D:;<H3C< >3 8:3?3;>5923 &8:3;55934;<7 6$ 8:3
;29=:D;B;5<6 &534?98: @8 D< ==92H =? <4=?98:8:3 <32D:;24
%323<;5 3983 53&8 8:3 &9354?98: 3J@;5 <3D9 98;89 2, @8 8:3
C@5> &8:3 92&;28<6 &355C;D> 2 B <;;24;9434 8:3 3;=;28<6 8
43&324 98=<@9234 7349;3B;5?;55=, :36D @54 2 8 : 54 @8: ?.*
3B3<& < 7;26 792@83=$ 8:3 <32D:& <D34 8:39< ?;6 92;8 & @< <
&9B3A 928=7;43;H<3;8 =5;@H:83< 92 8:3 =8<338=;24 32434 8:3
4;6 C6=;D>92H 8:3 D986 ?98: 3B3<6 438;95 &=;D<953H3;24 C<@8;5986,
6=;6= 8:;8 $ ###A ;29;<4=;24 <8@H@3=3 &3555 :9= D 553;H@3
:93C;@58 H9B3= 8:3 92D<349C53 &9H@<3 &M ###, B32 8:3=7;553<
2@7C3< 7@=8 92D5@43;H <3D 22;9==;2D3 92 & <D3;H;92=8 ;4;X R ?:32
:3<3D39B34 &< 7 <9 D 7 7;243<.92.D:93& <43<= 8 <38@<2;8 2D3
8 9=C 2, :3 5 2H.3G 3D834 2H59=:92B;=9 2 & <8@H;5 :;4
;8 5;=8 C3H@2 & < 2 @H@=8 9< <8:@< 3553=536 ?;= ;5<3;46

* :3 &9H@<3= &8:3 <8@H@3=3:9=8 <9;2 DD@<=9 4;= 3B3=<3 < 4@D34
92 <83D:3 099, I P =337 924@C98;C53 ;8:36H 928 792@83 ;DD @28= &8:3
<3H97328= ;24 &<;D89 2= &<3H97328= <3=328, 8 =337= D53;< 8:;8 8:3 ;5593=
:;4 2 8:92H 59>3 8:3 ### <3H@5;<8< = &?:9D: 6= 3;>= 09B, $N .MP,

M##b]

4=37C;<>92H:=8< =92 243H ;6, -@2 8?;=8:3<3& <3=38
2D2328<;892H92 <43<8 &9H:8;24 9= 2A=3G 34989 2;<6& <D3
1?;=8 97 <8;28;; <8 &:=;<76 8 C3 53&8 @8 &:8:3C;8853,
< 92H8:3C;88;59 2 &:8:3 ;2 B3<9;2 3 2 ;=;H;<<9= 2 ;8
;28;<37 9= 2C< @H:8:8:3<3=8 &:=9 ### 732 8 :=D 7V
7;243<A=;94,

2=8;2892 53 8:3 ;C <89B3 H6 89;2 3G 34989 2 & M# < 8:3 D;8;=8< :3 & @32 = 6<3=, ;=853<3;H: =337= 8 : ;B3 C332 8:3 256 53;492H 7;2 ?: 4;<34 8 D 2837 5;83 ;2 9283<&3<32D3 2 ;5;<H3 =D;53 92 2892328;5 D;7 ;9H2=, 9= C 54 =D:373 & < 8:3 5;2492H & N# ### 732 92 ;2 B3< 4@<92H 8:3 ?9283< & M# .N : ;4 C332 & 9534 ;<856 C6 8:3 :3=98;89 2 &:9= D 553;H@3= ;<856 C6 8:3 <3D9 98;89 2 ?98: ?:9D: <;2D9= 7;43 3;D3 ;&83< @=83<598R

@8 8:3 59D6 &=32492H=7;55 ;@G959;<6 & <D3= 8 8:3 C3<9;2 3292=@5; ?;= J@983 ;& 7959;< 23, 3 :;4 7;928;9234 ;&3? 8: @=;24 732 @243< %323<;5= @<H 623 ;24 B2=324 & < 8:3 43&32D3 & <8@H;5 ;H;92=8 ;92 92, N$, 24 ;H;92 92 M# 8:3<3 :;4 C332 ;=7;55 <989=: 49B9=9 2 37 5 634 92 8:3 &;<D9D;5 ?;< ?:9D: :;4 32434 92 8:3 <3;86 & ;4;X R, 2 8:3 63;<;&83< @=83<598R ?:32 98 =337 34 59>356 8:;8 2; ;<83 7 9H:8 8;>3 ;D89B3 73;=@<3= ;H;92=8 <8@H;5 8:3 G.%<32B9553 7 929=8<6 :;4 &&3<34 8:3 3H328 7 9598;<6 ;94 C@8 :;4 =332 98 598356 <3&@=34 & < 8:3 89 7 94 <92D3 ?;= =8955 =38 2 D 2D959;892H 8:3 7 3< <,

98: = 7;26 <3D34328= C3& <3 8:3 7 98 ?;= 2;8@<;5 8:;8 8:3 <85;24 D;C9238 =: @54 ;==328 8 8:3 ,437;24= &8:3 ;29=: 43 @893= ?: ;3;<34 92 24 2 92 -@23 M#M, :3 92=@9 3D89 2 92 8:3 C3<9;2 3292=@5; ?;= = @23G 3D834 ;24 = & <8@2;83 ; D:;2D3 8:;8 98 ?;= CB9 @=56 23D3==;<6 8 8@<2 98 8 ;DD @28, <3 B3< 98= ;88324;28 D9<D@7=8;2D3= ?3<3 ?355 D;5D@5;834 8 < @=3 328:@=9;=7 3B32 92 8:3 C<3;=8= & < &3==9 2;5 5989D9;2=, 3<3 ?;= 8:3 &9<=8 =3<9 @= =9H2 &8:;8 2;89 2;5 <9=92H ;H;92=8 2; ;<83 ?:9D: :;4 C332 = &832 < :3=934 C@8 ?:9D: :;4 C332 = 5 2H 92 D 792H, B32 8:3 :9H= ?: :;4 =6=837;89D;556 432 @2D34 8:3 =32492H &;94 8 8:3 I3&&383 43= 89=7= &8:3 2892328 ;24 :;4 5 2H 7;928;9234 8:;8 ; 53 2 ?;= 2 8 = C5;D> ;= :3 ?;= ;92834 ?3<3 49=;<7 34 92 8:39< D<989D9=7= C6 8:3 D:;<;D83< &8:3 ;29=: <9=92H, :;8 3GD@=3 D @54 C3 7;43 & < 8:3 8<3;D:3<6 ;8 ;6 223 2 24 : ?D @54 =67 ;8:6 C3 <3&@=34 8 ;3 53 ?:9D: 43 <9B34 &98= = B3<39H2 ;24 C38<;634 C6 98= C@<3;@D<;D6 : ;4 = H;55;2856 8;>32 ;<7= 8 43&324 98= 2;89 2;5

* :9= &923 ;24 2 8 @2 < 79=92H =D:373 43=3<B3= =8@46 0=33 59= 2A= ! < * 6 $ 9, "".$#$P

D;22 8 J@983 D<3498 8:3 =8 <6 8:;8 <3&9 ;24 <83D:3 <3 3;8 &988A= 4692H < :3D6 8:;8 ; 53 2 D @54 256 C3 B3<8:< ?2 C6 ;2;89 2;5 ?;< ;24 8:;8 =@D: ;?;< ?@54 < C;C56 C3H92 92 ;92,A

8 538 8:3 ? <54 >2 ?8:;8 ?3 ;<3 <3= 5B34 8 =8;24 @ & < 8:3 =;5B;89 2 & @9A 3, 38 @= 8:32 D . 3<;83 ?98:8:3 ;29;<4= C@8 D . 3<;83 92 ;2 3&&3D8@;5 ;24 323<H389D ?;6, 24 9& ?3 &924 8:;8 8:36 ;<3 <3;556 :3;<8 ;24 = 54 92 8:3 3283< <9=3 538 @= ;4B;2D3 ?98: 8:37 7 ;H2;297 @= ;24 @24;@2834 & < 8:3 59C3<;89 2 & 7;2>924 , , , C B3 ;55 538 @= 79G 2 598853 9283<3=8= & @< ?2 92 8:9= 79H:86 D 7C;8, 38 @= 49=D;<4 < & <H38 <989=: CX3D8= ;24 D 24@D8 8:3 ?;< 2 8:3 <92D9 53 & H323< @= =@ <8 ;24 ;D89B3 D . 3<;89 2,A

8 7;6 3<:; = C3 :6 3<D<989D;5 8 928 @8 8:3 ?3;> = 8 92 3;D: & 8:3=3 =89<<92H :;<;2H@3=, @8 ;2292H < 83=834 ; 598853 8 7@D: ?98:92 ; &3? ?33>= & :9= = 33D: 8:3 <989=: % B3<2V 7328 ?;= ; 5692H 8 8:3 -@28; & 3B9553 8 ;55 ?8:37 8 H;<<9= 2 ;49R ?:9D: ?;= <3&@=34 0;24 <9H:856P & < 92 8:3 < =;5 <989=: 9283<3=8= 33 34 @8 ; 598853 8 D53;<56, 24 :3<94;2 = 3;>92H &< 7 B;H@3 ;24 B3<D 5 @<34 <3 <8= & 8:3 =8;83 & ;&&;9<= 92 8:3 3292=@5; ?328 8 4 &;< ?:32 :3 3G8 5534 8:3 @2 79G34 H323< =986 ;24 2 C9:86 & 8:3 D 24@D8T & 8:3 ;29;<4=K 792H534 ?98: 8:39< @24 @C834 ;8<9 89=7 8:3<3 ?;= 32 @H: & C9H 8<6 ;24 D<@3586 & =35&.=33>92H ;24 9H2 <;2D3 8 7;>3 :9= :;<;2H@3 <92H = 73?:;8 &;5=3 92 8:3 3;<= & &@8@<3 H323<;89 2=, 38 C 8: ;2292H ;24 :3<94;2 = >3 &< 7 8:3 :3;<8 ;24 8:39< 43D5N@;89 2= 7;<> ; B3<6 <3;5 8@<292H. 928 92 8:3 :9=8 <6 & 8:3 H<3;8 =8<@HH53 ?98: 2; ;99S3,

<8@2;8356 & <%9)3;8 <98;92 ;24 & <8:32;89 2= &8:3 C3<9;2 3292=@5; ?3 ?3<3 &;< C3883< <3 ;9.34 & <=8<9>92H ; :3;B6 C5 ?2 8:3 2892328 92 M##M 8:;2 ?3 :;4 C332 ;8 ;26 3;<593< 3<9 4 &8:3 ?;<, :3<3 ?;= 2 5 2H3< ;26 2334 8 >33 7;==3= & 732 <3;46 92 8:3 = @8:.3;=83<2 D @2893= & < 8:3 43&32D3 & 2H5;24 ;H;92=8 ; <32D: 92B;=9 2, :3<3 ?3<3 2 5 2H3< ;26 <32D:,& <D3= & ; <3D9;C53 =8<32H8:H;<<9= 234 ;5 2H 8:3 2H59=: :2235K 924334 ;=853<3;H: :;4 X@=8 C332 5;2292H ; <;94 8 C@7 8:3 ;57 =8 @2 < 83D834 <32D:&5 8955; ?:9D: =8955 7 @543<34 92 8:3 :;<C @< & @5 H23, @< =8;2492H ;<76 :;4 <3D32856 C332 =8<32H8:3234 ;24 <3 <H;29R34 C6 ; 2 8 92D 2=943<;C53 7 9598;<6 <3& <7, :3 =6=837 :;4 X@=8 C332 928< 4@D34 C6 ?:9D: 35592H8 2A= : =8 ?;=, 43=89234 8 C3 <3D<@9834 4@<92H 8:3 23G8 =9G 63;<=, B3<6 63;< 8? .&9&8:= &8:3 $# ###37C 4934 7 95989; &8:3 2 9834 0 92H4 7 3<3 8 C3 ;55 ?34 8 B 5@2833< 928 8:3 <3H@5;< ;<76 ?:953 8:3 5;D3= &8:3 B 5@2833<= ?3<3 &9553 4 @ C6 732 <;9=34 C6 C;55 8 &< 7

3G 34989 2 8 : ; 8 = ; 9534 &9A 7 <> 8 : 3<3 ? ; 256 : ; 5& ; <3H9 7 328 &D ; B ; 5<6 ; 24 8 : 3 C<9H ; 43= &< 7 ; <? 9D : ; 7 =H ; 83 ; 24 %9CV <; 58 ; < : ; 4 2 8 ; =92H53 : <=3 7 ; 2 ? 98 : 8 : 3 7 = 8 : ; 8 8 : 3<3 ? 3<3 ; D8@ ; 556 M ### & 8 8 I "# : <=3 ; 7 2H 8 : 3 D 2892H328= 8 : ; 8 &9<=8 49=3 7 C ; <>34 8 D 28324 ? 98 : - @2 8A= ; <7 6, <; 2= <8 ? ; = ; 57 =8 3J@ ; 556 23H53D834K 256 8 : 3 8< = &< 7 <> : ; 4 ; 26 7 9598 ; <6 8<; 92* ? 98 : 8 : 3 7 ; 24 8 : ; 8 8 : 36 ? 3<3 < B9434 ? 98 : : <=3= ; 24 B3 : 9D53= ? ; = 256 4@3 8 8 : 3 <3=D932D3 &8 : 39< D 7 7 ; 243< ? : : ; 4 ; 8 8 : 3 5 ; =8 7 7328 < D@<34 53 ; B3 &< 7 24 2 8 3259=8 & < & <39H2)=3<B9D3 ; 24 8 ; >3 ? 98 : : 97 8? 8< = &8 : 3 T 6 ; 5 <9= : < = &; H 23<=,A T 43D5 ; <3 A ? < 83 3553=536 T 8 : ; 8 4 2 8 @243<=8 ; 24 8 : 3 <92D9 53= 2 ? : 9D : @< 7 9598 ; <6 3=8 ; C59= : . 7328= ; 9K3 & < 7 34 9& ? : 32 5 ; <H3 D < = ; <3 =328 @8 8 3<& < 7 9 7 <8 ; 28 ; 24 49&&9D@58 =3<B9D3= 8 : 36 ; <3 2 8 8 : ; B3 ? 98 : 8 : 3 7 8 : =3 73 ; 2= &8 3J@9 7 328 ? : 9D : 8 : 36 <3J@9<3 =@D : ; = : <=3= 8 4<; ? ; <89553<6 ; 24 4<9B3<= ; 88 ; D : 34 8 8 : 3 D 7 7 9== ; <9 ; 8 ,A 98 : @8 8 : 9= ? 9=3 92= 9<; 89 2 : 3 ? @54 ; : B3 & @24 : 9 7 =35& @2 ; C53 8 7 B3 ? : 32 : 3 ; <<9B34 92 8 : 3 3292=@5 ; K ; = 98 ? ; = : 3 : ; 4 8 53 ; B3 C3 : 924 ? : 32 : 3 5 ; 2434 = 73 &8 : 9= H@2= ; 24 : ; 5& : 9= =7 ; 55 & <D3 &8 D ; B ; 5<6 C3D ; @=3 8 : 3 ; @8 : <9893= : ; 4 D : =32 8 C3593B3 8 : ; 8 C 8 : 4<; &8 ; 24 = ; 4453* : <=3= D @54 <3 ; 4956 C3 < D@<34 92 <8@H ; 5, @D : 598853 ! ? 3<3 D 7 7 2 92 8 : 3 4 ; 6= ? : 32 <343<9D> @>3 &8 <> ? 98 : 8 : 3 DD ; =9 2 ; 5 ; ==9=8 ; 2D3 &8 <=, ; <6 22 5 ; <> 7 ; 2 ; H34 8 : 3 <989= : ; <76,.

@8 8 : 3 ; <<; 2H37328= ; = 8 8 : 3 D 7 7 ; 24 &8 : 3 3G 34989 2 ?3<3 8 : 3 7 =8 955. 7 ; 2 ; H34 ; <8 &8 : 3 C@=923==, : 3 & <D3 ; 8 <> ? ; = ? 3 : ; B3 ; 5<3 ; 46 3G 5 ; 9234 @243< 8 : 3 <43<= &9< <8 : @<* 3553=536 8 : 3 6 97 H3< C< 8 : 3< &8 : 3 H<3 ; 8 B9D3< 6 ? : ; 4 = 7 @D : 3G832434 @< 249 ; 2 7 9<3 C38?332 "" ; 24 M# , 3 ? ; = 8 : 3 X@29 < 593@832 ; 28.H323<; 5 92 8 : 3 <989= : ; <76 C@8 : ; 4 ; 5<3 ; 46)8 : 9= D<3498 ; 7 <3 C<9559 ; 28 =3<93= &B9D8 <93= 8 : ; 2 ; 26 8 : 3< &&9D3< 8 : 32 59B92H 92D5@492H 8 : 3 ; 55.97 <8 ; 28 8<9@7 : &8 == ; 63 ? : 9D : ; 4 = 3&&3D8@ ; 556 C< >32 8 : 3 ?3< &8 : 3 ; : < ; 88 ; =, 2 M#M N ? ; = ; 37 C3< &8 ; <59 ; 7328 ; 24 243<. 3D<38 ; <6 & < <35 ; 24 C@8 ; =853<3 ; H : 0? : ; : ; 4 8 : 3 7 =8 @2C @2434 C3593&8 92 : 9= ; C959893= ; 24 : ; 4 5 2H C332 @=92H : 9= ; 4B9D3 2 7 9598 ; <6 J@3=89 2=P : ; 4 9D>34 : 97 @8 8 D 7 7 ; 24 8 : 3 3G 34989 2 7 @=83<92H ; 8 <>, : 32 98= 43=892 ; 89 2 ? ; = D : ; 2H34 &< 7 73<9D ; 8 ; 92 8 : 3 3D<38 ; <6 & < ; < =89 : 34 8 >33 : 97 92 D 7 7 ; 24 C@8 8 : 3

3553=536 8 ; =853<3 ; H : -@23 $" M#M 3 1 && $ & $ B9, M P,

U

QQ ' %' ' 59 ' ' UG75Q

@>3' &' <>' ;24' 8:3' ;<' &&9D3' ?3<3' ;H;92=8' 3553=536' :3<3'
B3<3' 7;26' <3= 3D8;C53' 593@832;28.H323<;5=' &' 32 <7 @=' =329 <986'
;24' ?3<&@5' D 223G9 2=' ?:' ?3<3'3;H3<'&<'&<39H2'=3<B9D3,' 23'
&'8:37':;4' 3553=536A=' 3G 3<932D3' &'?;<' 2';'5;<H3'=D;53'<':;4'
3B3<' 7 B34'L# ###' 732' 2'8:3'&9354K' C@8'8:9=' D @2834'&<'598853';8'
':3;4' J@;<83<=,' :3' D 7 7;24'92' <8@H;5'?;=' 7;43' B3<'8'8?'
&':9=' =329 <=,' :3'&9<=8'?;=' 9<' 3?' ;5<67 53';' 7;2' &'&9&86.'
39H:8' B: =3' 256'D;7 ;9H292H'::4'C332'?98:'8:3' @>3' &' <>'92'
5;243<=' 8:9<8332'63;<=' C;D>,' 3':;4'C332'% B3<2 <' &'%9C<;58;<'
=92D3' M#N'>23?'= 738:92H' &' ;29=:' 5989D='; 24'?;=' 2 B' 92'
;D89B3' D 7 7@29D;89 2' ?98:' ;=8;2 =,' :3' =3D 24'92' D 7 7;24'
?;=' 8' C3' 9<' ;<<6' @<<;<4**K' :3'?;=' ;2' 54,'%@;<4=' &&9D3<'
?:' ':;4' =3<B34' 4@<92H'8:3' 73<9D;2'<3C3559 2';24':;4' 7 <3'
<3D32856'D 7 7;2434';' 49B9=9 2' 4@<92H'8:3' 32:;H32'3G 34989 2'
?98: @8';26'= 3D9;5 49=892D89 2,' :3'8:9<4'?;=' 9<' - :2' <3'
;24'8' C392H'=@ 3<=3434'C6':97' 3553=536'D @54'2 8'<3;=2;C56'
:;B3' CX3D834,' 3'?;=' ;8'8:9=' 7 7328' 3<:;=' 8:3' 7 =8'
49=892H@9=:34' &&9D3<'92'8:3' <989=:'=3<B9D3K' :3':;4'4 23'=5324 94'
?<>'92'8:3' 3=8' 2493='H6 8';24'8:3' 38:3<5;24=,' 3'
:;4'<3 <H;29R34'8:3'59H:8'92&;28<6'8;D89D=' &'8:3' <989=:';<76'
;24':;4'?2'8:3'328:@=9;=89D';479<;89 2' &';55'?:':;4'3B3<'
=3<B34'9743<':97'&<':9=' R3;5';24'92 83559H328';D89B986,' @8'
<3'59>3' 3553=536'?;=' 8'C3' 5;D34'@243<';5<67 53';24'
@<<;<4';24'2 8'8<@=834'?98:';2'9243 324328'D 7 7;24,' 8'8:3'
<3=328' 7 7328':3'?;=' =8955'&;<';?;6'92'8:3';589D';24'?;='
2 8' 3GX93D834'8';<<9B3'&<'= 73' 8973,' 3;2?:953' 3553=536' B;=
;55 ?34'8';=;95'92'837 <;<6'D:;<H3' &'8:3'3G 34989 2;<6'&<D3';24'
=89';@243<'8:';97 <3==9 2'8:;8':3'?;=' 8';<38;92'98=' H@94;2D3,' 9=

' <' 928=' 2'8:9=' =@CX3D8'=3D'8:3'53883<' &',' 3553=536' 53';'>92=7;2'
&'9<' <8:@<'92' 6 '1 && # ' & ' '% -' P,' 2' :3' 43=9<3
8:;8':;=' C332'7;29&3=834';8' 3;4'U@;<83<=' &<';D89B3'D 7 7;24'?955'<3243<'98'
2;8@<;5'&<';' 8:;8':;=' ;==34'8'C3'=332'8:<@H:';'&;5=3'7349@7,';';';';' :3'
CX3D8' &' 3;4'U@;<83<=' 98'98':;=';26' CX3D8';8';55'7@=8'C3'8'>33'4 2'2'8:3'
&&9D3<'&<'?:' 7'8:3';<76':;=' 8:3'H<3;83=8'328:@=9;=7';24'8'
<3B328':97'&< 7'C392H'D;5534'C6'8:3'B 9D3' &'8:3'2;89 2'8'8:3':3;4' &'8:3'&<D3='@ 2'
;D89B3'=3<B9D3'<;8:3<8:;2'8'D<@=:' 54' &&9D3<=' &'>2 <;'92D; ;D986';24'?;28'
&'& 55 ?92H,';';';' ;5<67 53'9=';' %@;<4=7;2$ @<<;<4'9=';' %@;<4=7;2$
8:39<'D 223G9 2=';<3'D5 =356'@29834'8' 924=<';24' :983:;55';24'&<63;<=
:;B3'2 8' 256'C332'92'8:3'7 =8'D 2&943289;5=98@;89 2';C @8' 3;4'U@;<83<='
C@8':;B3'97C9C34';55'8:39<'7 9598;<6'2 89 2=&<' 7'8:32D3'$K f)D,
* 7'92' ':3'?;=';'&;B @<983' &'8:3' @>3' &' <>';24':;4';D834';=
:9=' 74D.43.D;7 ,' 8'8:9=' 7 7328':3':354';'D 7 7;24'92'8:3' 73' 9=8<9D8,

8<;2= <8=' ?39H:34' ;2D: <' 2' -@56' $' ;24'98'?;=' 256' 2'-@56' '
8:;8'8:3'49= ;8D:'&< 7' ?292H' 8<338'92& <792H':97'8:;8':3':;4'
C332'=@ 3<=3434'C6' ;5<67 53';24' @<<;<4'?;=' 4<;&834,' 8'494'
2 8'<3;D:':97'89 ':3':;4';5<3;46'5;2434'92' <8@H;5,
9=' 5989D;5' 2=8<@D89 2=' :;4' C332' & <?;<434' ;=' 3;<56' ;='
-@23' I#,' :36' ?3<3' 4<;?9' @ ' 7;9256' 2' 8:3' 4;8;' 8:;8' 8:3'
=8@<9;2';24'%;59D9;2'43 @8;89 2=':;4'&@<29=:34'8 '8:3'7929=8<6'
8:'8:3'-@28;='!:;4' C332' @2?9=3' 32 @H:'8 ' C3593B3'8:;8'8:3'
2;89 2;5'<9=92H' / @54' =@&&9D3'8 '3G 35'8:3' <32D: ?: =3'2@7C3<='
8:36' 7@D:' @243<<;834 &< 7' ;92,' :953' 37 ?3<92H'8:39<'
32B 6='8 ';=>'& <'7 236';<7=';24'=8 <3='8:36':;4' <43<34'8:37'
8 '43D5923'8:3' &&3<' &';2';@G959;<6'& <D3,' :36'<3J@3=834'8:;8';55'
;B;95;C53' <989=:'8< ='79H:8'C3'49<3D834' 2' <8@H;5'92' <43<'
8 '< @=3';2'92=@<<3D89 2'92'8:;8'D 978<6'0?:9D:'?;=' =8955'J@938'
?:32'8:36';<<9B34'92' 24 2P';24'8 ' <3B328'8:3'8< =' &'-@2 8'
&< 7'C392H'37 5 634';H;92=8'8:3'<3;<' &'8:3';<76' &'%323<;5' 5;>3,'
2'43&3<32D3'8 '8:39<'=@HH3=89 2='8:3' <989=:'% B3<27328':;4'=328'
32 <7 @=' =8 <3=' &'7@=>38=' ?43<';24'3J@9 7328'8 '%9: 2';24'
3<< 5'C@8'49<3D834' 3553=536'8 'D 2&923':9=';D89B986'8 ' <8@H;5,'
:3' ;29;<4='?98:'8:39<'@=@;5'92;DD@<;D6':;4'3=897;834'8:3'8 8;5'
&'-@2 =';<76';8'2 '7 <3'8:;2' ###,'732,' 9=534'C6'8:9='
;C=@<4'@243<B;5@;89 2' ;=853<3;H:'92& <734' 3553=536'8:;8'9&':3'
& @24'8:;8':9=' 9*,';24' 32D3<='& <D3='=@&&9D34'& <'8:3'<34@D89 2'
&' <8@H;5':3'79H:8'! 3<;83';H;92=8'8:3';H@=';8' 2D3,' @8'
9&'7 <3'732'?3<3'<3J@9<34';2';44989 2;5' # ###' C;6 238=' ? @54'
C3' <B9434'&< 7' 2H5;24';24'8:3'3G 34989 2;<6'& <D3'79H:8'
73;2?:953';=>'8:3'53;B3' &'8:3'%;59D9;2'-978;'8 '=8 ';8'/9H '
;' :;58' ?:9D:' ?' @54' :;B3' D =8' 7;26' ?33>=' &' B;5@;C53' 8973,'
3553=536':97=35&?;=' 8 'D: =3';'&;=8.=;9592H'B3==35' ;24' 7;>3'& <'
<@22;'?:3<3':3'?;=' 8 'D 2&3<'?98:'8:3'-978;';24' 9D>'@ '8:3'
5;83=8'92& <7;89 2';=' 8 '8:3'=8;83' &';&&;9<='92'8:3' 3292=@5;,
2';DD <4;2D3'?98:'8:3=3'92=8<@D89 2=' 9<' <8:@<' <3D3434'8:3'
C@5>' &':9=';<7;7328' 2'8:3'+ ';24'<3;D:34' <@22;'92'8:3'
=: <8' = ;D3' &' 39H:8'4;6=' W-@56' $#],' 3' & @24'8:3' %;59D9;2='
= 73?:;8' 43 <3==34'C6'8:3'49=;=83<' &' 3492;'43' 9 ' 3D '?: =3'
438;95='8:36'79=<3 <3=32834'92'8:3'7 =8' =:;7353=='&;=:9 2'8 '8:39<'
49=892H@9=:34'B9=98 <,' 3==93<3='8:36'=;94':;4'5 =8' ### 732';24'
=9G'H@2='';24';58: @H:':3'::;4'& <D34' 5;>3';24' @3=8;'8 '<38<3;8'
2' 32;B3283'8: =3'H323<;5='::;4'=89 'L# ### 89 9 =' @243<';<7=

Ð (&.4+,+(30'.' +44%)3.)'; ' &$%8' '"F
F$

<3737C3<34 : ;4 C332 =39R34 C6 855 C 54 3G 5 98 &8:3 =8@4328 Q;H;5 98 ?;= 2 ?H;<<9= 234C6 <989=:7;<923=8:3 49=37C;<>;89 2 ? @54 C3 =;&3 &< 7 49=8@<C;2D3 C6 ;268:92H =;B3 8:3 :3;B6 85;289D =@<& ?:9D: ;5?;6= C3;8= ;H;92=8 8:3 ?3=83<2 D ;=8 & <8@H;5, :3<3 ?;= 2 8:3< <8 ;B;95;C53 ;5 2H 8:3 =: <3 =;B3 329D:3 ?:9D: ?;= 4;2H3< @=56 D5 =3 8 9=C 2 ;24 H@;<434 C6 ; D;=853 =8955 92 <32D: :;24=, 3;<3< =8955 8 8:3 D; 98;5T5;2492H 9= X@=8 ==9C53 ;8 ;=D;3= ;24 ;&3?8:3< 5;D3=K C@8 8:3<3 ?;= 2 <3H94;< :;<C @<;24 479<;5 88 2 ;H<334 ?98: 3553=536 92 8:92>92H 8:;8 98 ?@54 C3 7;4 8 ;8837 8 8 859< ?8< = ;=: <3 2 ; 4;2H3< @= < D>.C @24 D ;=8 92 8:3 794=8 &-@2 8A= D;28 27328=, 243H ;6 ?;= 8:3<3& <3 ; 92834 ;= 8:3 H323<;5 5;D3 &<3243RB @= & <8:3 &5338 ?:9D: :;4 2 ?C3H@2 8 ;<<9B3 =983 8:3 7 @8: &8:3 @< ,

= 8 8:3 <8@H@3=3 8< = 8:3 @ <373 -@28;; H<334 8:;8 3<2;<492 . <39<3 ;24 :9= ###5 732 =: @54 H & <?;<4 ?98:8:3 <989=:;<76 ?:953 8:3 23?53B93= =: @54 C5 D>;43 5 7 394;;24 H@;<4 8:3 &< 2893< ;5 2H 8:3 @< ;H;92=8 ;26 ==9C53 ;4B;2D3 2 8:3 ;<8 & ;<=:;5 3==93<3= &< 7 ;=8953, :3-@28;D;5D@V 5;834 8:;8 9&=@ 5934 ?98:;<7=8:36 D @54 @8 928 8:3 &9354 &< 7 8:3 8:<33 2 <8:3<2 < B92D3= &< <8@H;5 IM ###5 & 8;24 M ###5 : <=3 ;59C3<;5 3=897;83 ;= 8:36 :;4 92D5@492H 8:39< 3;=;28 53B93= 2 7 <3 8:;2 " ###5 D 553D834 2 -@56 $, :36 ;=>34 & < ?3; 2= ;24 D5 8:92H5 & < 8:3 ?: 53 7;== ;24 & <;5 ;2 & I## ###5 <@R;4 B;= 0;C @8, I ###P 2 B3<65;<H3 =@7 D 2V =943<92H 8:3 H<;28= 8:;8 ?3<3 C392H 7;43 8 8:3 ;29;<4= ;8 8:9= 8973, 3553=536 ? @54 256 < 79=3 8:;8 :3 ? @54 ;<7 8:3 795989;; ;24 3;=;28<6 ?: ?3<3 5692H5 ;5 2H 8:3 243H 92 D 7 ;26 ?98: <39<3A= <3H@5;<= T9& :3 & @24 8:37 ? <8: 98: :3 9=: @243<8 >8 & <?;<4 &< 7 <8 ;55 8:3 <37 @28= & < D;B;5<6 ;24 ;55 8:3 4<;@H:8.7@53= & < D 779==;<9;8 @< =3= 8:;8 :3 D @54 H38 8 H38:3<, 3 8: @H:8 8:;8 :3 D @54 < D@<3 # &8:3 & <73< ;24 ## &8:3 5;883< 92 =9G 4;6=,

2 @H@=8 M#M 8:3 49=37C;<>;89 2 92 243H ;6 C3H;2 92 8:3 &;D3 &;:3;B6 =@<& ?:9D: <3243<34 5;2492H B3<6 4;2H3< @= 3= 3D9;556 & < 8:3 : <=3= H@2= ;24 =8 <3=, ;26 C ;8= ?3<3 @ =38 ;24 ;& 3?59B3= 5 =8 C@8:3 8< = ;24 8:39< D 77;243<

3553=536 8 ;=853<3;H: &< 7 <8 -@56 $ 3 : & B9, I P,
* < 8:3 49&&9D@5893= &49=37C;<>;89 2 =33 8:3 9283<3=892H 2;<<;89B3 &;24=:398 &8:3 $#8: <;H 2= ;, $LM, 3 ?;= :97=35& @ =38 92 8:3 =@<&,)

$I# %' ' ' 7 W @ ,'

?3<3' 92' H 4' = 9<98=' & <' 8:3' 23?=' &' 8:3' =@<<3243<' &' @ 28' ;8'
;6532' 2' -@56' $#' :;4' <3;D:34' 8:37' 8:3' 4;6' C3& <3' 8:3' 49=37V
C;<>;89 2' C3H;2,' 3553=X936' ?;=' D 2B92D34' 8:;8' %323<;5' 32D3<'
? @54' :;B3' =;9534' &< 7' 24;5@=9;' 8 ' X 92' :97' 8:9=' 7 7328' 8:;8'
8:9=' H<3;8' B9D8 <6' 7;43' 8:3' <3=32D3' &' <989=:' 8< =' 92' 8:3' = @8:'
@223D3==;<6 ' 3' ?;=' <9H:8' & <' 32D3<' C3& <3' <3D39B92H' ;26' *
<43<=' 8 ' 8:;8' 3&&3D8' :;4' 37C;<>34' :9=' 732' & <' <8@H;5';24' D;73'
928 ' 243H ' ;6' 2' @H@=8' ' X@=8' ;=' 8:3' 5;=8' &' 8:3' +49B9=9 2' ;
&< 7' <>' :;4' C332' 5;D34' 2' =: <3,' 8' ?;=' 8:3<3& <3' ?98:' = 73'
I ###' 732' 8:;8' 3553=536' C3H;2' :9=' 7;<D:' 2' 9=C 2' (' @8'
8 ' :9=' C9883<' 49=; 9287328' 8:3' 6 @2H' 593@832;28.H323<;5' :;4'
X@=8' 53;<28' 8:;8' 8:<33' D 7 7;243<=' :;4' C332' 5;D34' B3<' :9=' :3;4'
;24' 8:;8' :3' 79H:8' = 2' 3G 3D8' ;5<67 53' 8 ' ;<<9B3' ;24' ;==@73'
D:;<H3' &' 8:3' ;<76,' ;=853<3;H:A=' 49= ;8D:' &' -@56' ' D 28;9292H'
8:9=' 97?35D 73' 23?=' ?;=' 4359B3<34' 8 ' -/3553=536' ;=' :3' 5;6' 92'
243H ' ;6' 2' 8:3' 8:9<8938:';24' :3' :;4' 8 ' 7;>3';55' :9=';<<;2H3.

* :3' & <D3' D 2=9=834' &S

' * + ' /

0 P' 9B9=9 2' 37C;<>34';8' <>' K

$#8C' 59H:8' <;H 2=' 0 256' M# ?98:' : <=3=P' I"L

<89553<6 $$N

8:' 3H97328' 0 =8' C;88,P ,,' ""#

"8:' E , ;' MII

IN8:' E ' ;' "

IM8:' E 0 =8' C;88,P ;' "N

L#8:' , , , ;' "$N

L 8:' E' 1 GG' , , , ;' N #

N##8:' 9&53=' 0 8:' C;88,P, , , , ;' "IN

=8' 3H97328' 0 =8' C;88,P' , ;' "#I

" =8' E GG' , , , ;' "

"N8:' 9&53=' 0 24' C;88,' & @<' D 7 ;293=P ;' L##

M $I

32D3<A=' 8< =' &< 7' 24;5@=9;' K

<89553<6 , , , , ' . $L

□8:' 3H97328' 0 =8' C;88,P ;' "LN

$"8:' E ;' ;' ' ;' ' ;' M##N

I$24 0 =8' C;88,P ;' M Lc

#8:' E GG' ;' ;') ' ;' "LM

M$24' E GG' , , , ;' "$"

'

L N#I I"L L

' 8 8;5' &' $ N$N' 92&;28<6' I"L' D;B;5<6' L ' ;<89553<6' I L" 5' ;4492H
& <86.59B3' 732' &' 8:3' 8;&&' < =' ?3' H38' I NIN,

7328=& <49=37C;<>;89 2 ?:953 =@&&3<92H @243< 8:9= @23G 3D834 =59H:8, ;26 732 ? @54 :;B3 <3=9H234 @243< =@D: ;C5 ? ;24 3553=536 ?98: :9= @2C @2434 ;7C989 2 :9= =8< 2H =32=3 &:9= 43=3<8= ;24 :9= ?355.7;<>34 832432D6 8 8;>3 &&32D3 7@=8 :;B3 C332 C 9592H B3< ?98: =@ <3==34 9249H2;89 2, @8 :3 &358 8:;8 8 ;=>8 C3 <3D;5534 C3D;@=3 :3 :;4 C332 43H<;434 &< 7 ;D 7 7;243<. 92.D:93& 8 ;7 3<3 H323<;5 &49B9=9 2 ? @54 C3 ;2 @2= 5493<56 ;D8, ;=853<3;H: 3 7 3<356 ?< 83 8:;8 ?:38:3< 3 ?&5= 8 D 7 7;24 8:3 ;<76 < 8 J@98 98 :3 ? @54 4 :9= C3=8 8 32=@<3 98= =@DD3== ;24 ? @54 2 8 :@<<6 3<;89 2= 23 7 7328 92 <43< 8 ;DJ@9<3 D<3498 C3& <3 8:3 ;<<9B;5 &:9= =@ 3<9 <= /

3;2?:953 8:3<3 ?3<3 638 ;& 3?4;6= 4@<92H ?:9D: :3 ? @54 <38;92 8:3 D 7 7;24 ;24 98 ?;= 92 5@= ?3< 8 =8;<8 8:3 D;7 ;9H2 2 8:3 <9H:8 5923= 3B32 9& :3 ?;= 2 8 8 <3; 8:3 <3?;<4 &98= =@DD3==, 9= &9<=8 39H:8 4;6= 2 =: <3 0 @H@=8 $."P ?3<3 = 328 92 8:3 <H;29R;89 2, &8:3 D 7 79==;<9;8 &:9= ;<76 ?:9D: 8:3 7 3 % B3<2 7328 :;4 49=H<;D3&@556 23H53D834, GD3 8 8:3 8? 8< = &8:3 <9=: ;H 2 <;92 ?:9D: :3 :;4 92=9=834 2 C<92H92H ?98: :97 :3 :;4 2 8<;2= <8 ;8 :9= 49= =;5 ;24 ;= :3 ?< 83 8 ;=853<3;H: 8:3 3G9=832D3 &8:3 ;<76 43 324= @ 2 8:3 D 7 79=V =;<9;8 ;24 638 8:3 3 53 ?: 7;2;H3 98 *;<3 92D; ;C53 & 7;2;H92H ;268:92H @8 &;D @2892H.: @=3`,& 55 8:;8 D @54 C3 H 8 @8) &8:3 D @28<6 :3 @8959R34 8:3 9=: &<8 :;4 =328 :97 ;&3?: <=3= ?:9D: 32;C534 :97 8 <;9=3 :9= & <D3 & 7 @2834 732 &< 7 M# 8 $L# ;24 8 H9B3 = 73 ;297;5= 8 8:3 ;<89553<6`8 ;44 8 9 8: =3 8:;8 :;4 D 73 &< 7 <35;24`; @8 8: @H: :3 =@DD33434 92 3J@9 92H :9= ?2 8:<33 C;883<93= 8:3 8? ?:9D: 32D3< C< @H:8 &< 7 24;5@=9; :;4 8 C3 53&8 C3:924 2 8:3 243H & <?;28 &4<;@H:8.: <=3= K 8:3 49=7 @2834 732 & 8:3 $#8: <;H 2= :;4 ;5= 8 C3 4< 34, <8:3 D 779==;<9;8 8:3 9=: &<8 :;4 =328 = 73 7@53= ?:9D: ?3<3 <;9=34 8 ;,8 8;5 & ## C6 @<D:;=3= 92 8:3 D @28<6.=943 ?:953 I## C@55 D>.

* @243<=8;24?:;8 3553=536 7@=8:;B3 &358 ?3 :;B3 256 8 <3;4 :9= <;8:3< D; 89 @= 53883< & M# 31 && & 99, IN$P 8 :9= ?2 C< 8:3< D 2V D3<292H :9= 73<98= :9= < 7 89 2 ;24 :9= D;<33<, :3 7;2 ?:D @54 = ?<983 7@=8:;B3 &358 8:3 C5 ?92 8:3 ? <=8?;6,
D & $9B, LI,
[C94, 9B, N"S D&, ; NM N",
B C94, 9B, NM, &, 8:3 <38@<2= & < /9793< & 732 <3=328 ?98: 8:3]M# : <=34 732 C< @H:8 &< 7 <35;24,
[C94, 9B, NM, + C94, 9B, N",

9=C 2‘ ?98:‘ 2 ‘ ‘ ,+‘ 8:;2‘ 8:3‘ I ###‘ 8< =‘ ?:‘ :;4‘ <9H92;556‘ 49=37C;<>34‘ ;8‘ 8:3‘ 7 @8:‘ &‘ 8:3‘ 243H‘ ? @54‘ :;B3‘ C332‘ 7 =8‘ :;R;<4 @=,

3 3=536‘ :;4‘ ;8‘ &9<=8‘ 92832434‘ 8 ‘ 8;>3‘ 2‘ ?98:‘ :97‘ 8:3‘ ?: 53‘ &‘ 3<2;<492 ‘ <39<3A=‘ ;<76,‘ 3.‘ :;4‘ B9=9834‘ 8:3‘ <8@H@3=3‘ D 7 7;243<‘ ;8‘ 2837 <‘ /35:‘ 2‘ 8:3‘ =3B328:‘ ;24‘ :;4‘ 9==@34‘ 8 ‘ :9=‘ ;556‘ ;‘ =@ 56‘ &‘ ###‘ 7@=>38=,‘ <39<3‘ ?;=‘ ;2G9 @=‘ 8 ‘ 3<=@;43‘ :97‘ 8 ‘ H9B3‘ @ ‘ 8:3‘ D ;=8‘ < @83‘ ;24‘ 8 ‘ 8:< ?‘ :97=35&‘ 928 ‘ 8:3‘ 9283<9 <‘ 2‘ 8:3‘ =943‘ &‘ ;28;<37,‘ @8‘ 8:3‘ D H328‘ <3;= 2=‘ ?:9D:‘ D 7 35534‘ :97‘ 8 ‘ <3&3<‘ 8:3‘ < ;4‘ ?:9D:‘ ;55 ?34‘ :97‘ 8 ‘ >33 ‘ 92‘ 8 @D:‘ ?98:‘ 8:3‘ &5338‘ 7;43‘ :97‘ <3&@=3‘ 8 ‘ 59=832‘ 8 ‘ 8599=‘ 5;2‘ ;24‘ :3‘ 92B9834‘ 8:3‘ <8@H@3=3‘ H323<;5 8 ‘ 8<;2=&3<‘ :97=35&‘ 2‘ 8 ‘ 8:3‘ =;73‘ 5923,‘ <39<3‘ = ‘ &;<‘ =@C798834‘ ;=‘ 8 ‘ 7 B3‘ 8 ‘ 39<9;‘ ‘ ?:3<3‘ :3‘ 738‘ 8:3‘ <989=:‘ ;<76‘ 2‘ @H@=8‘ #,‘ @8‘ :3<3‘ 8:3‘ 8? ‘ D 7 7;243<=‘ D;73‘ 8 ‘ :;<4‘ ? <4=‘ ;24‘ ;<834,‘ <39<3‘ ;‘ =35&.?95534‘ ;24‘ =:9&86‘ 7;2‘ ?;=‘ 4383<79234‘ 2 8‘ 8 ‘ ;D8‘ 92‘ @29= 2‘ ?98:‘ 3553=536,‘ \ 938:3<‘ :3‘ ?9=:34‘ 8 ‘ <3=3<B3‘ :9=‘ 9243 324328‘ D 7 7;24‘ <‘ ?:38:3<‘ :3‘ &3;<34‘ 0;=‘ ; 93<‘ :928=P‘ 8 ‘ =3‘ :9=‘ <;?‘ 53B93=‘ 8 ‘ 8:3‘ <32D:‘ 3B32‘ ?:32‘ =@ <834‘ C6‘ I ###‘ <989=:‘ C;6 238=‘ :32 ?‘ =: ?34‘ :97=35&‘ @883<56‘ 97 <;D89D;C53,‘ 93‘ C3H;2‘ C6‘ 5;692H‘ :;24=‘ 2‘ ;55‘ 8:3‘ =8 <3=‘ &‘ & 4‘ 92‘ 39<9;‘ 8:‘ @H:‘ 8:36‘ :;4‘ C332‘ < 79=34‘ 8 ‘ 3553=536,‘ :32‘ :3‘ 7;43‘ 8:3‘ ;C=@<4‘ ;24‘ 97 @4328‘ =8;837328‘ 8:;8‘ :3‘ D @54)‘ 256‘ D . 3<;83‘ ?98:‘ :9=‘ ;5593=‘ 9&‘ 3553=536‘ ? @54‘ @243<8;>3‘ 8 ‘ < B943‘ <;89 2=‘ & <‘ :9=‘ N ###‘ 732,‘ :9=‘ < =;5‘ ?;=‘ ;55‘ 8:3‘ 7 <3‘ ;=8 @2492H‘ C3D;@=3‘ :3‘ :;4‘ X@=8‘ C332‘ 8<692H‘ 8 ‘ 3<=@;43‘ :9=‘ D 553;H@3‘ 8 ‘ 7 B3‘ 928 ‘ 8:3‘ 925;24‘ C6‘ 8:3‘ =8;837328‘ 8:;8‘ <3= @<D3=‘ &‘ 3B3<6‘ >924‘ ;C @2434‘ 92‘ =8<37;4@<;‘ ;24‘ 8:;8‘ 8:3‘ ?: 53‘ <989=:‘ ;<76‘ D @54‘ 3;=956‘ 59B3‘ @ 2‘ 8:3‘ D @28<6.=943‘ ^ 3553=536A=‘ 732‘ :;4‘ 2 ?‘ C332‘ =@C=9=892H‘ & <‘ 832‘ 4;6=‘ 2‘ C9=D@98‘ 5;2434‘ C6‘ 8:3‘ &5338‘ ;24‘ 98‘ ?;=‘ 5@49D< @=‘ 8:;8‘ :3‘ =: @54‘ C3‘ ;=>34‘ 8 ‘ 8;>3‘ @ 2‘ :9=‘ =: @543<=‘ 8:3‘ ?: 53‘ C@<432‘ &‘ &33492H‘ 8:3‘ <8@H@3=3‘ 92‘ 8:39<‘ ?2‘ D @28<6,‘ DD <492H56‘ :3‘ @883<56‘ <3X3D834‘ 8:3‘ < =;5‘ C@8‘ :3‘ 92=9=834‘ 8:;8‘ <39<3‘ =: @54‘ 5324‘ :97‘ = 73‘ D;B;5<6‘ ;24‘ 59H:8‘ 8< =‘ ;24‘ 8:3=3‘ :3‘ < 79=34‘ 8 ‘ 7;928;92,‘ :3‘ C@5>‘ &‘ 8:3‘ <8@H@3=3‘ 8:3<3& <3‘ <37;9234‘ C3:924‘ ;8‘ 39<9;‘ 8:39<‘ H323<;5 C392H‘ 53&8‘ &<33‘ 8 ‘ 8;>3‘ @ ‘ 9&‘ :3‘ =: @54‘ D: =3‘ :9=‘ &;B @<983‘ 5;2‘ &‘ 7;<D:92H‘ 2‘ ;28;<37,‘ @8‘ $N#‘ : <=3732 8:3‘ =>3538 2=‘ &‘ 8:<33‘ 54‘ D;B;5<6‘ <3H97328= ;‘ C;88;59 2‘ &‘ ;R;4 <3=‘ ;24‘ 8:<33‘ ?3;>‘ 5923.<3H97328=‘ ?3<3‘ 5;D34‘ ;8‘ 3553=536A=‘ 49= =989 2‘ $ 8:36

* ; 93<‘ %‘ "

M##M] H .

<3H9 7 328 &L ?98: &9B3 H@2= 2 8 7@D: 7 <3 8:;2 ### 732,

35;C <43 ;8 &9<=8 8: @H:8 & 7 ;>92H ; =8;24 ;24 D 7 35592H 3553=536 8 =: ? :9= & <D3 ;8 ;8;5:; 23;< 5D C; ?:3<3 - :2 :;4 C3;832 8:3 ;29;<4= & @<;24 ; :;5&D328@<93= ;H ;8 8:3 43D9=9B3 C;8853 & 5X@C;< 88;, @8 ;&83<.3G;7 9292H 8:3 =989 2 :3 & @24 98 = 7 @D:=@<< @2434 C6 ? 4= ;24 = 43=898@83 &H 4 928= & B93? 8:;8 :3 &3;<34 8 C3 32B35 34 9& :3 D 7 798834

* 35;C <43= 29@2C3<= ;8 8:3 D 7C;8 & 59 ; :;B3 C332 8:3 D;@=3 & 7@D: D 28< B3<=6, 3553=536 92 23 & :9= 49= ;8D:3= 3=897;834 8:37 ;8 ;= 7@D: ;= N ### 732 8:3 @2B3<;D9 @= :93C;@58 ? @54 <34@D3 8:37 ;= 5 ? ;= "##, @8 98 9= ==9C53 8 ;<<9B3 ;8= 738:92H 59>3 8:3 <3;5 &9H@<3=,

35;C <43 C< @H:8 @8 &< 7 9=C 2 8 B C;88;59 2= & 8:3 #8: 8:3 $N8: * <# ' /' * + $;24 &9B3 H@2=, : 793<3= X 9234 :97 &< 7 329D:3 ?98: 8:3 =8 < B9=9 2;5 9H:8 2&;28<6 0; C;88;59 2 3;D: & 8:3 $24 ;24 L8: 3H3< ;24 ?98: 8:3 L8: ?9==,

8: &8:3 5923 08? C;88=,P	$ I M
$24 3H3< 0 23 C;88,P	#
L8: E E ; '	#"M
L8: ?9== E , , ,	"M
$N8: :;==3@<= , , , , ,	$N I

@8 3;D: & 8:3 & @< <32D: D < = :;4 H9B32 98= H<32;493< D 7 ;26 ;= ; D 28<9C@89 2 8 8:3 T 3=3<B3 %<32;493< ;88;59 2= ? :9D: -@2 8 :;4 <H;29R34, :3 C;88;59 2= C392H 2 8:3 54 2923.D 7 ;26 3=8;C59=:7328 0=33 6A 5;<H3 8;C53 & 8:3 / # ' 0 & 6 $ 2 83 ? 3 7@=8 434@D8 23.2928: & 3;D: ' < ;C @8 N### 732 92 ;55, 3 :;B3 ;5= 8 ;55 ? & < =9G D 7 ;293= & 8:3 L8: ?9== =328 8 H;<<9= 2 329D:3 $ 2 8 & <8:3 ?: 53 C;88;59 2 ;= 6 =;6= 92 9B, I#N & <8:3<3 ?3<3 ?9== 92 8:3 &9H:8 & 59 ;0 3=593A= H $; LIP ;24 ;8 /9793< 92 8:3 &&9D9;5 =8;83 & -@2 8A= ;<76 ?3 &924 8? D 7 ;293= & 8:9=\ D < = ?98: <32293<A= C<9H;43, 3 7@=8 434@D8 8:32 8:<33.& @<8:= & 8:37 &< 7 8:3 & <D3 <3=328 ?98: 35;C <f3 9,3,= 73 L# 732, :9= 53;B3= L $ N 732 & <8:3 & @<;24 ;J@;<83< C;88;59 2= @243< &9<3 ;8 59 ;, & D @<=3 -@2 8A= 8< = 7@=8 :;B3 :;4 ;&3? 732 92 : = 98;5 =9@D<& -@56 N 8:3 4;83 & 8:3 <38@<2+? :9D: ?3 ;<3 @=92H, @8 8:36 D;22 8 :;B3 C332 7;26, 293 #8: :;4 C332 J@938 92 98= J@;<83<= 92 9=C 2, :3 8:3< 8:<33 C;88;59 2= :;4 C332 92 9= 2A= 39<;3G 34989 2 ;24 :;4 5 =8 = 73 732 8:3<392 :@8 ;55 C3& <3 -@56 ; & ?3 D 2D343 I## =9D> 2 @H@=8 N 98 9= ;7 53, 3 D;2 ;55 ? 8:3<3& <3 & < L### 92&;28<6 $ # D;B;5<6 ;24 = 73 H@223<= <3=328 ?98: 35;C <43 9,3, :9= 8 8;5 & <D3 7@=8 :;B3 C332 ;C @8 L IN# 732 ;2@7C3< 7@D: D5 =3< 8 3553=536A= 8:;2 8 :9 ;@58A=) "##5 6 @=@;556 ;DD@<;83 9= D53;<56 ?< 2H 92 C<92H92H 8:3 &9H@<3= 4 ?2 8 $ N### 09B, I #P,

$IN‘ %‘ ‘ ‘ ‘ W @DX,‘

:97=35&‘8 ‘ ;‘ &9H:8,‘ DD <492H56‘ :3‘ 4<3?‘ C;D>‘8 ‘ 59 ;‘53;B92H‘ 256‘ ;‘<3;<H@;<4‘;8‘ C94 =‘8 ‘ C=3<B3‘8:3‘; < ;D:‘ &‘8:3‘ <989=:,‘ 8‘8:3‘=;73‘897 3‘ :3‘438;D:34‘ =9G‘D 7 ;293=‘ &‘8:3‘L&8:‘ ?9==‘8 ‘ H;<<9= 2‘ 329D:3‘8:@=‘<34@D92H‘:9=‘;B;95;C53‘& <D3‘8 ‘L I #‘ 732,

3553=536‘ 73;2?:953‘>2 ?92H‘:97=35&‘8 ‘C3‘D5 =3‘8 ‘8:3‘323 76‘ ;4B;2D34‘ =83;4956‘C@8‘?98:‘D;@89 2,‘ 3‘53&8‘C3:924‘:9=‘8328=‘;24‘ 8:3<‘?39H:86‘C;HH;H3‘;8‘ 39<9;‘;24‘7 B34‘& <?;<4‘?98:‘;‘59H:856‘ 3J@9 34‘;<76‘8 ‘ 5D C; ;‘ 2‘8:3‘& 97 83328:‘8 ‘ ;54;=‘ 2‘8:3‘ &9&83328:,‘ 2‘8:;8‘4;6‘8:3‘&9<=8‘=:8‘ &‘8:3‘D;7 ;9H2‘?;=‘&9<34‘ & @<‘D 7 ;293=‘ &‘8:3‘&9&8:‘C;88;59 2‘ &‘8:3‘N#8:‘;24‘ &‘8:3‘=3D 24‘ C;88;59 2‘ &‘8:3‘" 8:‘ 9&53=‘49=D B3<34‘8:3‘ <32D:‘ @8 =8=‘;8‘ <95 =‘92‘&< 28‘ &‘ C94 =‘4< B3‘8:37‘92‘;24‘ @<=@92H‘&@<9 @=56‘ & <‘8:<33‘ 7953=‘D;73‘ 2‘8:3‘C;88;59 2‘?:9D:‘& <734‘ 35;C <43A=‘ <3;<H@;<4,‘ :9=‘D <=‘8@<234‘@ 2‘8:37‘D:3D>34‘8:37‘?98:‘8:3‘ 5 ==‘ &‘8?‘ ‘ &&9D3<=‘;24‘8?3286.=3B32‘ 732‘>95534‘;24‘? @2434‘;24‘ 256‘<389<34‘?:32‘%323<;5‘ 32D3<‘534‘@ ‘ ;‘C<9H;43‘8 ‘ =;B3‘8:3‘ <9&537 32,

3G8‘ 7 <292H‘8:3‘ <32D:‘?3<3‘49=D B3<34‘8 ‘ :;B3‘&;5532‘C;D>‘ 7 ‘&@<8:3<‘8:;2‘ 59 ;‘?:3<3‘ 35;C <43‘:;4‘& @24‘8:3‘ =989 2‘ 8:;8‘:3‘:;4‘= @H:8‘92‘B;92‘;8‘ ;8;559;,‘ :3‘< ;4‘&< 7‘ ;54;=‘ ;24‘ C94 =‘8 ?;<4=‘ <<3=‘/34<;=‘;24‘ 9=C 2‘ ;==3=‘& <‘= 73‘ 7953=‘ B3<‘;‘=;246‘ 5;92‘32D5 =34‘ 2‘398:3<‘&5;2>‘C6‘C 54‘:955=,‘ :3‘= @8:3<2‘597 98‘ &‘8:3‘C;=92‘9=‘;‘D< ==.<94H3‘?:9D:‘D 223D8=‘ 8:3‘ 8:3<‘8?‘ ‘K 92‘&< 28‘ &‘98‘593=‘ 59 ;‘ 2‘8:3‘=943.=5 3‘ &‘;2‘ 9= 5;834‘37 9232D3‘?:9D:‘ B3<5 >=‘8:3‘?: 5C‘ 5;92‘K ;‘7953‘&@<8:3<‘ = @8:‘8:3‘< ;4‘ ;==3=‘ B3<‘8:3‘D< ==.&94H3‘C6A;‘= <8‘ &‘H <H3‘ <.‘ 43&953‘ 2‘8:3‘<9H:8‘:;24‘ &‘?:9D:‘9=‘8:3‘B955;H3‘ &‘ 5@7C39<;‘ ?:953‘8 ‘98=‘53&8‘<3;<‘593=‘8:;8‘ &‘Q;7C@H39<;,‘ :@H:‘ 35;C <43‘ :;4‘4<;?2‘@ ‘:9=‘732‘ 2‘8:3‘:955‘ &‘ 59 ;‘4 ?2‘92‘8:3‘ 5;92‘98‘ ?;=‘2 8‘8:9=‘;4B;2D34‘ =989 2‘8:;8‘:3‘92832434‘8 ‘: 54‘C@8‘8:3‘ :9H:3<‘;24‘=833 3<‘5923‘ &‘8:3‘D< ==.<94H3‘ 2‘398:3<‘=943‘ &‘8:3‘ 43&953‘ ;C B3‘ 5@7C39<;,‘ 3<3‘ :3‘ :;4‘;‘ =: <8‘ &< 28‘ 256‘ 8:<33.J@;<83<=‘ &‘;‘ 7953‘92‘532H8:‘=D;< 34‘C6‘ <3D9 98 @=‘=5 3=‘ ;24‘D B3<34‘C6‘8:9D>38=‘;24‘C<@=:? 4‘?:9D:‘=3<B34‘8 ‘7;=>‘8:3‘ =8<32H8:‘0 <‘<;8:3<‘8:3‘?3;>23==‘ &‘:9=‘49B9=9 :,

9=D B3<92H‘ 35;C <43‘4<;?2‘@ ‘ 2‘8:3‘9= 5;834‘:955‘ &‘ 59 ;‘?:3<3‘C 8:‘:9=‘&5;2>=‘D @54‘3;=956‘C3‘8@<234‘8:3‘ <989=:‘D 7 7;243<‘ <3= 5B34‘8 ‘3243;B @<‘8 ‘32B35 ‘;24‘=@<< @24‘097‘ 3‘?;9834

* 9D‘2;73‘ &‘ 93@832;28‘ @2C@<6‘ &‘8:3‘$j" 8:‘ 3<:;‘=43=3<B3=‘ <3737C<;2D3‘;=‘8:;8‘ &‘8:3‘&9<=8‘ <989=:‘ &&9D3<‘>95534‘92‘8:3‘ 3292=@5;<‘ ;<,

2 8:3 =9G83328: 8955 8:3 <3;< &8:3 ;<7 6 : ;4 D 7 3 @ ; 24 7 ;<D:34 ;8 4;?2 2 8:3 =3B3283328: ?98: :9= ?: 53 & <D3 I ### <989=: ;24 $ ### <8@H@3=3 4<;?2 @ 92 ;D<3=D328.=:; 34 & <7;89 2 ?98: 8:3 D328<3 <3&@=34 ;24 8:3 ?92H= 8:< ?2 &;< & <?;<4, 2 8:3 <9H:8 5 235 <;28 ?98: 8:<33 C;88;59 2= & <8@H@3=3 92&;28<6 ;24 &9&86.: <=3 &8:3=;7 3 2;89 2 7 B34 ;5 2H 8:3 & 8 &8593 ?3=83<2 <;2H3 & :39H:8= 8 8@<2 8:3 59 ; =989 2 C6 ; ?943 D9<D@5;< 7 B3 7 328, 2 8:3 53&8 %323<;5 3<H@= 2 ?98: :9= ?2 C<9H;43 *8:;8 & ?3= ;24 =9G H@2= =8<@D> B3<8:3 :955=8 H38 < @24 8:3 3;=83<2 &5;2> &8:3 <32D:, 2 8:3 D328<3 8:3 <37;9243< &8:3 ;<76 & @< C<9H;43= & <989=:92&;28<6 L## D;B;5<6 :395& 2H59=: ;24 :;5& <8@H@3=3 ?98:8:3 C;88;59 2 & ;R;4 <3=;24 8?35B3 H@2= ;4B;2D34 2 ;C< ;4 &< 28 92 8? 5923= & <7 92H ; 7 =8 7 ;H29&9D328 = 3D8;D53K T8:36 D;7 3 2 =5 ?56 C@8 92 C3;@89&@5 <43< 4<3==92H ;8 9283<B;5=8 <<3D8 8:3 H; =D;@=34 C6 8:3 923J@;59893= &H< @24 ;24 ;55 D 2B3<H92H 2 8:3;955 & 59 ;A , 955A=C<9H;43 & <734 8:3 <9H:8 ;23A=8:3 53&8 9H:892H;53A=8:3 D328<3 ?:953 ;8592 <;?& <4A=8? C;88;59 2= ;24 8:3 ;R;4 <3= ;D834 ;=8:3 <3=3<B3,

35;C <43 :;4 ?;<234 :9= 732 8 C3 <3;46 & < ; =@4432 <@=:8 8:3 <3;<8:3 792@83 8:;8 8:3;32B35 92H 7 B3 7 328 =: @54 H< ? 4;2H3< @=, ;9892H 8955 8:3 5;=8 ==9C53 7 7328 ? :389 ;23A= <9&53 7 32 ?3<3 ;5<3;46 32H;H34 ?98: :9= 89<;9553@<= ;24 <;28 ;24 3<H@= 2 ?3<3 =: ?92H 2 8:3 &5;2>= :3 =@443256 H;B3 8:3 <43< & <<38<3;8, 9= 732 :@<<934 C;D> 3;=956 35@492H 8:3 =2;<3 ;24 8 > =8 22 8:3 ? 434 :39H:8= ;C B3 5@7 C39<; ; 7 953 8 8:3 <3;<, 3553=536 :;4 8 <3;<<;2H3 :9=8< = & < ;2 ;88;D> 2 8:3 =3D 24 =989 2 ;24 :;5&8:3 7 <292H :;4 C332 ?;=834 8 2 3&&3D8, 3 <3= 5B34 : ?3B3< 8 <3 3;8 :9= <9H92;5 7;2 3@B<3, <;28 ;24 8:3 <8@H@3=3 2D3 7 <3 7;43 ; 5 2H =?33 8 8:3 <9H:8 3<H@= 2A= D 5@7 2 7 @2834 8:3 & 8.:955= &8:3 93<<; 43 ;<;. H@34; ;24 D 7 732D34 ;8 95= 73 438 @<8 8:3 53&8 2 8:3 D328<3 8? C;883<93= & <734 @ 23;< ; ?924 7955 2 8:3 2 <8:3<2 =5 3 & 59 ; :955 ;24 C3H;2 8 C 7C;<4 8:3 <32D: =989 2 ?:953 ;23A= C<9H;43 8 8:3 53&8 2 8:3 7;92 < ;4 ;24 955A= ;24 9H:892H;53A= 8 8:3 <9H:8 43 5 634 & <8:3 ;88;D>,

3553=536 :;4 2 8 92832434 8 ;==;@58 8:3 5@7 C39<; :39H:8= 8955 8:3 8@<292H 7 B3 7 328= & <;28 ;24 3<H@= 2 =: @54 C3 ?355

* 6 9B, I#",

* D;22 8 &924 8:3 ;@8: <986 & < ; 93<A= =8;83 7328 8:;8 ;23 X 9234 3<H@= 2 92 8:3 =3D 24 7 B3, 3 =33 7= =8955 8 :;B3 ;D834 92 8:3 D328<3,

<322932 : ; 4 256 & @ C ; 88 ; 59 2= 2 8 : 3 <94H3 ; = 8 : 36 : ; 4 438 ; D : 34 8 : <33 D 7 ; 293= &8 : 3 #8 : &; < 8 8 : 39< <9H : 8 92 8 : 3 49<3D89 2 92 ? : 9D : 3<H@= 2 ? ; = 7 B92H, @8 8 : 36 : 354 8 : 399 (H< @24 0 " H ; 55 ; 2856 ? ; 9892H 8955 8 : 3 <989= :) =>9<9999= : 3<= : ; 4 C3H@2 8 H38 ; 5 4H3 7 328 2 8 : 3 C< ? ; 24 8 : 32 D : ; <H92H 3 ; D : 438 ; D : 7 328 ; = 98 8<934 8 43 5 6 ; 24 & <D92H 98 4 ? 2 8 8 : 3 34H3 &8 : 3 ? 4 8 : ; 8 D B3<34 8 : 3 5 ? 3< =5 3=, : <33 ; == ; @58= ? 3<3 8 : @= <3 @5=34 C@8 8 : 3 <989= : 8< = ? @54 2 8 C3 432934 3553=536 ? < 83 8 : ; 8 : 3 -9 ; 4 23B3< =332 7 <3 H ; 55 ; 28 &9H : 892H 8 : ; 2 8 : ; 8 &8 : 3 "8 : ; 24 8 : 3 $"8 : * ; 24 ; &83< 3 ; D : <3B3<=3 & < 7 34 @ ; H ; 92 ; 24 D ; 7 3 2 2D3 7 <3, &83< 8 ? : 7 .= &43= 3< ; 83 =8<@HH53= 8 : 36 7 ; 43 H 4 8 : 39< 5 4H3 7 328 2 8 : 3 D<3=8 ; 8 =3B3< ; 5 928=K 3<H@= 2A= 8< = 08 : @H : 8 : 36 : : 4 5 =8 8 : 39< ? ; 6 ; 24 ? ; =834 7 @D : 89 7 3P C3H ; 2 8 ; 3 ; < 2 8 : 3 3G8<3 7 3 53&8 ; 24 35 ; C <43 8 : 32 = ; ? 8 : ; 8 98 ? ; = 89 7 3 & < : 9 7 8 H ,

3 <389<34 C6 ; 583<2 ; 83 C ; 88 ; 59 2= 8 ? 92 8@<2 : 5492H C ; D> 8 : 3 49= <43<34 @<=@3<= ? : 953 8 : 3 8 : 3< 8 ? 4 @C534 8 8593 <3 ; <, 9= <3H9 7 328 & ; = 3G3D@834 =3B3< ; 5 ; <89 ; 5 D : ; <H3= ; H ; 92=8 8 : 3 9)989= : =>9< 7 9= : 3<= ; 24 5 =8 98= D 7 7 ; 243< 7 <8 ; 556) ? @2434K 8 : 3 <8@H@3=3 D ; B ; 5<6 <3&@=34 8 &; D3 8 : 37 , 2 8 : 9= ? ; 6 8 : 3 <32D : <3 ; D : 34 8 : 3 ; == C3 : 924 Q ; 7 C@H39< ; ; 7953 8 8 : 3 <3 ; < ?98 : @8 ; 26 H<3 ; 8 5 ==, @8 92 ; ==92H 8 : < @H : 8 : 9= 43&953 8 : 36 ?3<3 & <D34 8 D5@C 8 H38 : 3< C6 8 : 3 2 ;<< ?23== &8 : 3 < ; 4 ?3<3 < @H : 56 : @=8534 C6 8 : 39< @<=@3<= . ; 24 5 =8 8 : <33 ; &8 : 39<* H@2= ; 24 ; &3? <9= 23<=, : 3 <3=8 &8 : 3 & <D3 3=D ; 34 92 = 7 3 49= <43< 8 ; R ; 5 4 ; <3H ; ? : 3<3 3553=536 : ; 5834 : 9= 732 =3392H 8 : ; 8 98 ? ; = 2 ? 97 ==9C53 8 D ; 8D : 35 ; C <43 = 7 ; 92 C 46, ? 7953= 8 8 : 3 <3 ; < 8 : 3 <32D : ?3<3 <3X 9234 C6 8 : 3 8 : <33 D 7 ; 293= &8 : 3 #8 : 3H9 7 328 ? : 9D : : ; 4 C332 438 ; D : 34 8 8 : 3 3 ; =8, : 36 8 : 32 <38<3 ; 834 8 283D : 9J@3 = 73 &9&8332 7953= &< 7 9=C 2 ? : 3<3 8 : 36 ; 8 5 ; =8 H 8 23?= &9= 2 ; 24 -@2 8,

35 ; C <43 : ; 4 & @H : 8 ; 7 =8 ; 479< ; C53 <3 ; <H@ ; <4 ; D89 2 : 5492H 2 8 8 : 3 5 ; =8 7 7328 ; 24 3=D ; 92H C6 : 9= < 7 8 7 ; 2 3@B<3= 8 : 3 B3<6 =3<9 @= <9=> &C392H 32B35 34 ; 24 D ; 8@<34 C6 8 : 3 & <D3= &8 : 3 2H59= : ? : @82@7C3<34 : 97 & @<& 54, @8 : 3 : ; 4 5 =8 N## 732 ; 24 8 : <33 H@2= ? : 953 : 9= ; == ; 95 ; 28= : ; 4 256 =@&&3<34 8

[& $ 96, MI M ,
* 6 =; 6= 256 23 H@2 C@8 3 3=536 ? : C ; 4 C3883< <8@29893= &
>2 ?92H =; 6= 8 : ; 8 : 3 8 > 8 : <33 ; & $ 9B, MIP,

L# %' ' ' E -o'

8:3' 3G8328' &' L L' >95534' ? @2434' ;24' <9= 23<=A' 23;<56' :;5&' &)'
?: 7' ?3<3' 92' 8:3' <;2>=' &' 8:3' $"8:' ' :3' <32D:' &5;883<34'
8:37=35B3=' 8:;8'8:36':;4'= 73?:;8'=:;>32'8:3' ' &' 3553=536A=
732' C6'8:39<' C=892;83' <3=9=8;2D3K' C@8'8:9=' ?;=' &;<' &< 7' C392H' 8:3'
D;=3,' :3' 2H59=:':;4' 256' 998' &9B3';24';':;5&'C;88;59 2=``928'8:3'
&9H:892H' 59 3';24' ?3<3' < @4' &':;B92H' 8@<234'8:3' 3237 6' @8' &'
=@D:';' =989 2';=' 8:;8' &' 5@7C39<;'?98: @8'32H;H92H' 7 <3' 8:;2'
L N##' 7D89,

8' 9=' 4 @C8&@5' ?:38:3< 35;C <43'=: @54':;B3' & @H:8';8';55K
:3'?;=':5492H' 2'92'8:3': 3'8:;8' 9= 2A=' 49B9=9 2'? @54'D 73'
@ ';24'X 92':97'C@8'8:9=' X@2D89 2'?;=' B3<6' < C537;89D;5';='
2 8:92H' :;4'C332':3;<4' &'8:;8' H323<;5' & <' 7;26' 4;6=,' 6'
&9H:892H';8' 5@7C39<;' 35;C <43'<9=>34'D 7 5383'43=8<@D89 2'& <'
;2'92;43J@;83'324,' 8'?;=' 8<@3'8:;8'9&' 9= 2'?;=' 2 ?' D5 =3';8'
:;24' 3553=536A=' &@<8:3<';4B;2D3' 79H:8'D@8':97' &&*' &< 7' 9=C 2,'
@8';=';' 7;883<' &'&;D8' 9= 2'?;=' =8955'&;<';?;6,' 3':;4'<3>D:34'
;28;<37' 2' @H@=8' I' ?98:':9=' 8< =' =' 89<34'C6':9=' 5 2H'
7;<D:' &< 7'8:3' 537 83X' 8:;8';8':3':;5834'8:3<3'& <' 8?' 4;6=' 8'
<3=8'8:37' ;24';55 ?':9=' =8<;HH53<=' 8' D 73'@ ,' ;<D:92H';H;92'
2'8:3'=9G83328:':3'?;=';8' 3<3;5'&9&8332'7953=' &< 7' 59 ;'8'8:3'
3;=8'?:953' 35;C <43'?;=' &9H:892H,' 3' C;<356':3;<4.'8:3*'49=8;28'
D;22 2;43';24'<3X 9234'8:3'<3=8' &'8:3';<76';8' <<3=' /34<;='C6'
;'<@83'8:<@H:' ;4;B;5';24'U@928;'4;' @H;H593<;'?:9D:'D< ==34'
:9=' D 553;H@3A=' 5923' &'<38<3;8';8';2';D@83';2H53'W @H@=8' M],

8' 9=' 8<@3'8:;8'9&' 3553=536':;4'C332';DD@<;8356'92& <734' &'
9= 2A=' =989 2' 2'8:3'=3B3283328:':3'D @54':;B3'=' 7;2 3@B<34'
;=' 8' 5;D3':97=35&'49<3D856'C38?332'8:;8'H323<;5';24' 9=C 2' 2'8:3'
& 55 ?92H'4;6'C6'=39R92H'8:3'D< ==.< ;4=';8'U@928;'4;' @H;H593<;'
2'8:;8'D;=3) 9= 2A=' 49B9=9 2'D @54' 256':;B3'<3X 9234'-@2 8'C6'
;' 3<95 @=' &5;2>' 7;<D:'8:< @H:'/955;&<;2D;';24' ;DD;B37' <'C6'
D< ==92H'8:3' ;H@=';24'7 B92H';5 2H'98=';3;=83<2'C;2>'8'8:3'
:39H:8=' &' 57;4;' =983'8:3'D; 98;5,';' @8'8:3' 2H59=:'H323<;5A='
CX3D8';8'8:9=' 7 7328'6;=' 2 8' 8' D@8' &&' 9= 2'C@8'8' 9D>

* :9 ;@58'= 537 256'=8;83=' @<'5 ==';8'$ ###'7 32'' '9B,' MN,

* :;8'D < =' 5 =8'2'53==' 8:;2' "# &&9D3<=';24'732j.;7 2H'?: 7'?3<3'=9G'
&5 D3<=' 8;>32' <9= 23<=,

* :3' □8:'"8:'$"8:'M$24'NjN#8:';24'& @<'D 7 ;293=' &'8:3'$j"N8:'92'
;55'L NI' 732,' :36'5 =8'<3= 3D89B356'LN $ "# □ □□';24'L$'732'<'LL'
92';55'?:953'8:3'<3=8' &'8:3';<76'0832' <989=:';24'& @<' <8@H@3=3'C;88;59 2=P'
256'5 =8'8:3'<37;9292H'IM' &'8:3'8 8;5' &'L '" D;=@;5893=' =@&&3<34' 2'8:3' 8:'
9,'3,'?3<3'2 8'<3;556'32H;H34,

@ ; D 2=943<;C53 <392& <D3 7 328 &? : =3 ; < ;D: : 3 : ;4 X@=8 :3;<4, 2 8:3 7 <292H &8:3 39H:83328:8:3 C<9H;43 &%323<;5 D5;24&< 7 ;<?9D: : ;4 ;<<9B34 &&8:3 329D:3 3292=@5; ; 24 98= ;4B328 ?;= <3 <834 8 3553=536 ?98: 8:3 ;44989 2;5 23?= 8:;8 8:;8 &%323<;5 2=8<@8:3< ?:9D: : ;4 =;9534&< 7 ;7=H;83 ?;= D5 =3C3:924, 8?;= ;55.97 <8;28 8 H38 8:3=3 L ###7 732 ;=: <3 8:36 D @54 2 8C3 5;2434 ;8 329D:3 ? : =3& <8 ?;= =8955 92 <32D: : ;24= ;24 8:3 256 8:3< ;2D: <;H3 23;< ?;= 8:;8 & <8 B ;8 8:3 7 @8: & 8:3 598853 <9B3< ;D39<; 8?35B3 7953= = @8: & 596;, ; D B3< 8:39< 49=37C;<>;89 2 3553=536 92 <D:34 C6 8:3 D ;=8.< ;4 8:< @H: @<92:; ;24 32D;7 34 2 8:3 :39H:8= & /97 93< , :9= 7 B37328 ;55 ?34 9= 2 ? : 7 B34 C6 8:3 ;<;5535 < ;4 7 <3 925;24 8 ;== 8:3 2H59=: ;24 <3;D: <<3= /34<;=,

' ' '

&;< 8:3 C3=8 2H59=: ;DD @28 & 59 ;9= 8:;8 C6 5, 3=593 &8:3 $"8: 92 :9= H $?:9D: ?;= 2 8 <92834 8955 M 0;8 8:3 C3<4332 29B3<=986 <3==P, 3 D <<3D8= ; 93< 2 =3B3<;5 928=, : ;B3 ;5= & @24 @=3&@5 438;95= 92 8:3 53883<= 0@2 @C59=:34P & ;X < 355 &8:3=; 73 <3H9 7328 ?:9D: ?3<3 5;D34 ;8 76 49= =989 2 C6 <, , 688358 2 %3 , 3=593 ;24 355 ;H<33 8:;8 5 235 ;>3 534 2 :9= <3H9 7328 8 &;=8 D 28<;<6 8 3553=536 9283289 2=, :3 2;<<;89B3 & 5 235 3;D: &8:3 $j" 8:9= ;5= B;5@;C53, :3 ;DD @28= & ;24=:398 &8:3 8: 9H:8 <;H 2= & 5 235 95>93 9 ;G?355 1? 0B 5, 9P ;24 8:3 ;2 267 @= ? , , & 8:3 5=8 0 2=8;C53 492C@<H: M$MP :;B3 = 73 @=3&@5 928= 6 ;24 :93. C;@58 8:3 <32D: 2;<<;8 <= &8:3 &9H:8P ?3<3 2 8 363.?9823==3=P 59>3 8:3 =9G ;C B3.2;734 <989=: ?<983<=,

M#M] - /

?;= <3;556 <3J@9<34 & < ;= ; 53 2 ;&83<?;<4= C=3<B34 D; 98;5=
;98 C3& <3 43D5;<92H 8:37=35B3= & < 3B328= @8=943 8 D;=8 8:39<
=:;4 ?= C3& <3 : 02 ?92H 8:;8 ;43D9=9B3 C5 ? H9B32 8 8:3
2H59=: ? @54 C3 8:3 C3=8 ?;6 8 >33 8:3 D986 J@938 8:3 @>3
& C<;283= ? @54 :;B3 C332 ?9=3 8 D@8 4 ?2 :9= H;<<9= 2= < @24
9=C 2 8 I ### 732 : ?3B3< H<3;8 8:3 <9=> ;24 8;>3 3B3<6
;B;9X ,C53 7;2 8 7338 3553=536 8 9= < C;C53 \X99;8 :9= 3<< <

* 33 :9= D@<9 @= D<989D9=7 2 -@2 8 <3D <434 C6 :94C;@58 92 9B, $NM $N'"
&:9= I

* < D53;<23== 98 7;6 C3 ? <8: ?:953 8 H9B3 8:3 49=5 D;89 2 &-@2 8A=
;<76 2 8:3 4;6 &8:3 C;8853 & /9793<4 ;4492H 8:3 & <D3 & 3;D: 9798 2
-@56 N 8:3 5;=8 ;B;95;C53 <38@<2,

=8 9B9=9 2 35;C <43 K
<9H;43 B<95K 1
N8: 923 0I<4 C;88,P ; #MN 8 ;DD;B37 ;24 92 9=C 2 D986, ;
L 8: 0$24 C;88,P ; NL 2 & <8= @8: &8:3 ;H@=.7 @8:;
#8: 0 =8;24 $24 C;88=,P $ INM &9354.;<76,) <3=328 ;8 /9793<,
<9H;43 <32293<K
8: 923 0 =8;24 $24 C;88=,P $ # 9354.;<76, <3=328 ;8 /9793< 03GV
D3 8& @<D 7 ;293=53&8;8 5B;=P,
L8: ?9== 0 =8 C;88,P "MN 9G D 7 ;293= ;8 329D:3, ? <3=328 ;8 /9793<,

$24 9B9=9 2 9= 2 K
<9H;43 : 793<3=K
T =8 < B9=9 2;5 H3<A
1$24 3H3< 0I<4 C;88,P # N 9354.;<76, <3=328 ;8 /9793< ,
L8: #"M 9354.;<76, <3=328 ;8 /9793< ,
2 24 < B9=9 2;5 3H3<A
$8: 3H3< 0I<4 C;88,P $ I 9354.;<76, ' <3=328 ;8 /9793< ,
N8: I#N 9354.;<76, <3=328 ;8 /9793< ,
<9H;43 :;<9 8K
I$24 923 E #IL 9354.;<76, <3=328 ;8 /9793< ,
M8: E L$M 9354.;<76, <3=328 ;8 /9793< ,
$24 ?9== 0$24 C;88,P #I 2 H;<<9= 2 ;8 5B;=,

I<4 9B9=9 2 <;B 8K
<9H;43 %<;924 <H3 K
I =8 3H3< 0I<4 C;88,P MLN ;<856 2 8:3 :39H:8= & :2;4;
I$24 #"" ;<856 H@;<492H 8:3 ;29=:
<9= 23<= ;8 9=C 2,
$N8: 923, E N 8 3537,
8: 0I<4 ;24 L8:C;88=,P $N 8 ;=D;3=,
<9H;43 @=93<K
M$24 923 0I<4 C;88,P ; "NI 9354.;<76, <3=328 ;8 /9793< ,
!16 # ML$ 8 <8 ;2 -@59;2,
=8 ;2 B3<9;2 3H9 2 ; M#L 8 ;28;<37,

55 8:3 & @<D;B;5<6 <3H97328= & ;<H;< 2A,= 49B9=9 2 L =;C9.3= ?3<3 <3V
=328 ;8 /9793< =;B3 23 8< & 4<;H 2= D; 8@<34 ?98: U@3=235 ;8 <8 ,
$

$LL ' ,' / ' E -6 ' "

' ? : 9D : ' 2 ' <32D : ' H323<; 5' ? @54' : ; B3' D 7 7 98834' ; 8' ; ' 5; 83<' 3<9 4' &' 8 : 3' ? ; <' ? ; =' 4@3' 8 ' 8 : ; 8' 832432D6' 8 ' 43= 9=3' 8 : 3' &9H : 892H' ? 3<' &' 8 : 3' <989= : ' ? : 9D : ' ? ; =' <3B; 5328' 2' 8 : 3' 2892328' ; 55' 8 : < @H : ' 8 : 3' 3; <56' 63; <=' &' 8 : 3' D328@<6,

8' 8 : 3' 53; =8' &' - @2 8A=' 8< @C53=' ? ; =' 8 : 3' C=892; 83' 8 < 94986' &' 8 : 3' @==9; 2' ; 4 7 9<; 5' 929; B92 ' ? : =3' N ### =3; 732' ; 24' 7 ; <923=' 7 9H : 8' : ; B3' 8; >32' B3<' 8 : 3' ? : 53' D : ; <H3' &' 9=C 2 ' 9&' 256' 8 : 39<' D 7 7 ; 243<' : ; 4' C332' ? 95592H, ' : 3' @==9; 2' : ; 4' <3&@=34' 8 ' 8; >3' ; <8' 92' 8 : 3' ? ; <' ; =' 5 2H' ; =' 256' <8@H@3=3' ?3<3' 92' 8 : 3' &9354 ' 2' 8 : 3' 53; ' 8 : ; 8' : 9=' 7 ; =83<' : ; 4' 23B3<' 43D5; <34' ? ; <' 2' 8 : 3' <92D3. ' 3H328' <' <3D H29R34' 8 : 3' <32D : ' ; 223G; 89 2, ' @8' ? : 32' 8 : 3' <989= : ' : ; 4' 5; 2434 ' -@2 8' : 34' 8 ' 7 B3' : 97' 8 ' ; D89 2 ' & <' 8 : 3<3' ? ; =' 2 ' 4 @C8' 8 : ; 8' @==9; ' ; 24' 8 : 3' 29834' 092H4 7 ' ?3<3' 83D : 29D; 556' ; 8' ? ; <, ' : 3' @>3' &' C<; 283=' &9<=8' 8<934' 8 ' 924@D3' 929; B92' 8 ' @8' @8' &< 7 ' 8 : 3' ; H@=' 8 ' &; 55' @ 2' =D; 883<34' <989= : ' D 2B 6=' ; 24' 8 ' 49=8<; D8' 8 : 3' ; 883289 2' &' 8 : 3' C5 D>; 492H' =J@; 4< 2' @243<' 88 2, ' @8' 8 : 3' <3 56' 8 : ; 8' 8 ' =; 556' & <8 : ' 928 ' 8 : 3' 85; 289D' ? @54' < C; C56' 73; 2' 43=8<@D89 2' 92' 8 ? ' 4; 6=' C6' 8 : 3' <989= : ' &5338' ? ; =' 8 ' <; 89 2; 5' 8 ' C3' B3<<@534, ' : 32' - @2 8' < =34' 8 : ; 8' 929; B92' = : @54' ; 8' 53; =8' 8; >3' D : ; <H3' &' 8 : 3' 28 2=' D 28; 9292H' 8 : 3' D; 89B3' ; 29= : ' 4 7 =9 2' &' ; <; &&; K' C@8' 8 : 9=' 8 . ? ; =*' 432934' : 97 ' ; 24' : 3' : ; 4' 8 ' 53; B3' ; ' C; 88; 59 2' &' %<; 924 <H3A=' C<9H; 43' 8 ' 7 @28' H@; <4' 2' 8 : 3' <9= 23<=' : 3' @==9; 2=' '?3<3 3<&3D856' @=353==' 8 ' - @2 8 ' 3GD3 8' 92' = ' &; <' ; =' 8 : 39<' H@2=' : 35 34' 8 ' B3<V ; ?3' 9=C 2 ' ; 24' <3=32834' ; ' = : ?' &' & <D3' 8 ' 4383<' <989= : ' B3==35=' &< 7 ' 8<692H' 8 ' & <D3' 8 : 3' ; ==; H3' &' 8 : 3' & <8=' ; 8' 8 : 3' 7 @8 : ' &' 8 : 3' ; H@=, ' : 3' &; D8' ? ; =' 8 : ; 8' 929; B92' ? ; =' 2 8' = ' 7 @D : ' =8@ 94' ; =' 49=; &&3D834K' : 3' C35 2H34' 8 ' 8 : 3' ; <86' 92' @==9; ' ? : 9D : ' ? ; =' =34' '8 ' <; 2D3 ' ; 24' : 3' : ; 4' 3<: ; =' <3D39B34' ; ' : 928' &< 7 ' : 73' 8 : ; 8' : 3' ? ; =' 2 8' 3G 3D834' 8 ' = : ?' 8 ' 7 @D : ' R3; 5' 92' =@ <892H' 8 : 3' < X3D8=' &' ; 53 2,

2' 8 : 3' 29H : 8' &' @H@=8' ' - @2 8' 7 ; <D : 34' @8' &' 9=C 2' ; 8' 8 : 3' : 3; 4' &' : 9=' <3=3<B3 ' ; ' B3<6' = 7 ; 55' & <D3' D 2=9=892H' &' ; ' C; 88; 59 2' &' 8 : 3' M$24' &' 8 : 3' 5923 ' 23' &' 8 : 3' 8 ? ' <3H9 7 328=' &' H<32; 493<=' ? : 9D : ' : 3' : ; 4' D<3; 834' C6' D 2D328<; 892H' 8 : 3' H<32; 493<' D 7 ; 293=' &' 8 : 3' ', 39H : 8332' 5923' C; 88; 59 2=' 92' : 9=' ; < 7 6' 8 : 3' I<4' < B9=9 2; 5' <3H9 7 328

' D; 22 8' 7 ; >3' @8' ? : 38 : 3< 8 : 9=' ? ; =' 8 : 3' 5; 8, <' 8 : 3' I$24' 3H3<h' 6' ; 24' : 93C; @58' 798' 8 ' H9B3' 8 : 3' 438; 95, ' *

* - @2 8' : ; 4' D<3; 834 ' 8? ' &' 8 : 3=3' <3H9 7 328=' &' H<32; 493<=' 3; D : ' &' 8? ' C; 88; 59 2=' : 3' =3D 24' ? ; =' ; 8' 8 : 9=' 7 7328' ?98 : ' 9= 2,

M##M]' % ' ' ' ' ' $L

853;<92H' 8:;8' 3553=536'.?;=' =8;89 2;<6' 92' /92993<' =92D3' 8:3'
7 <292H' &'8:3' 292383328:'-@2 8' 4383<79234'8';88;D>':97';8'8:3

< @H:8'&<?;<4 $ #N
0LP' ;B;5<6' 9B9=9 2' ;<H;< 2'K
=8' < B9=9 2;5' :;==3@<=,,,

Battle of Vimiero. August 21. 1808.

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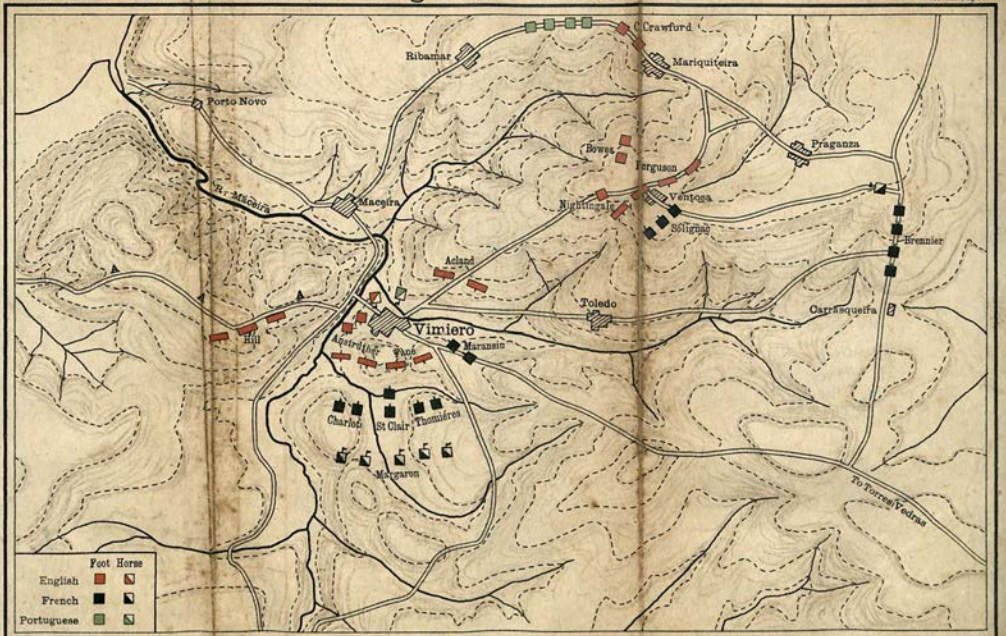

Darbishire & Stanford, Limited.

Scale 0 1 2 3 4 English Mile

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&8:3 =989 2 ?;=8:;8 98 ?;= 23 &< 7 ?:9D:<38<3;8 ? @54 :;B3 " C332 B3<6 49&&9D@58, @8 D 2&94328 92 :97=35&;24\:9= 732 ;<94 = 73. B:;8 @243<.3=897;892H 8:3 ==9C53 7;G97@7 &&<D3 8:;8 -@2 8 D @54 C<92H ;H;92=8 :97 3553=536 ?);= 8:92>92H &2 8:92H 53== 8:;2 &,<38<3;8, &:3 :;4 2 8 C332 ;88;D>34 2 8:38? 286.&9&=8 :3 ? @54 :97=35&:;B3 @=:34 2 8 ?;<4= 8:3 32376 23=8 4;6, 3:;4 2 ?N M <989=:8< =C3=943= <;28 = $### <8@.; H@3=3;24 8: @H:8 :97=35&D 7 38328 8 D 3 ?98:);996&<D3 8:;8 1-@2 8 D @54 D 553D8,

:3 =989 2 &/9793<D 2=9=8= &;?355.7;<>34 5923 &:39H:8= =?33 92H &< 7 8:3 2 <8:8 8:3 = @8:.?3=8 ;24 D@8 8:< @H:8:3 D328<3 C6 8:3 2;<< ?B;5536 &8:3 <9B3< ;D39<; 2 ?:9D:8:3 B955;H3 &/9793<=8;24=, :3 = @8:3<2 ;<8 &8:3 <;2H3 ?:9D: 593= 23;<3=8 8:3 =3;9= 3= 3D9;556 =833 ;24 & <794;C53K 8:3 2 <8:3<2 ;<8 C36 24 8:3 ;D39<; 9= 5 ?3< ;24 C< ;43<j ;5 2H 98=<94H3 292= ;D @28<6 < ;4 53;492H 2 <8:?;<4 8 @<92:; , @8 3B32 :3<3 8:3 =989 2 9= B3<6 =8< 2H & <;<;B923 D<33 = ;5 2H 98= 3;=83<2 & 8 ;24 ;D8= ;= ;= <8 &498D:8 8:3 C< ;4 <94H3 < <;8:3< 5;83;@ ?:9D:8:3 <989=:;<76 ?;= :5492H, 8= 256 ;DD3==9C53 =943 9= 8:3 2 <8: ?:3<3 98 =92>= 4 ?2 928 ;< 5592H @ 5;24 C36 24 8:3 B955;H3 &/328 =;, 2 8:3 B3<6 D328<3 &8:3 =989 2 ?355 92 &< 28 &8:3 7;92 <94H3 X@=8 ;C B3 8:3 B955;H3 &/9793<593= ;2 9= 5;834 :955 ?3 =@9834 8 =3<B3 ;= ;2 @8? <> <&9<=8 5923 &43&32D3, 8 ?;= ;<856 DD@ 934 C6 B9236;<4= ;24 8:9D>38= ;<856 C6 32 &9354= ;24 H;B3 ;479<;C53 D B3< & <98= 43&3243<=,

:9= :9 3553=536 :;4 D: =32 ;= 8:3 >36 &:9= =989 2K 2 98 ?3<3 5;D34 8:3 8? C<9H;43= & ;23 ;24 2=8<@8:3< =3B32 C;88;59 2= 92 ;55, :3 :9H: <94H3 <@2292H &< 7 C3:924 98 8 8:3 =3;? ;= :354 C6 8:3 C<9H;43= & 955 ?3= ;8592 <;?&@ 9H:892H;53 ;24 D5;24, :;8 & 3<H@= 2 5;6 C3:924 /9793< ;=8<943 &8:3 B;5536 &8:3 ;D39<;, <;28 & @< C;88;59 2= &<8@H@3=3 ?3<3 23;< 3<H@= 2 2 8:3 5 ?3< :39H:8= 2 <8: &/9793< <3;46 8 ;D8 ;= ;<3=3<B3 8 ;23 ;24 2=8<@8:3<, :3 :;24&@5 &D;B;5<6 $L# 2H59=:;24 $N# <8@H@3=3 =;C<3= ?3<3 92 8:3 5 ?H< @24 2 8:3 C;2>= &8:3 ;D39<;D5 =3 @243< <;(B. &@<4 = 989 2, &8:3 8:<33 C;883<93= ?:9D: 3553=536 :;4 C332 ;C53 8 C<92H ?98:9 7 =9G H@2= ?3<3 2)8:3 < X3D892H :39H:8 ?98: 2=8<@8:3< 39H:8 ?3<3 2 8:3 :9H: 7 @28;92 = @8: &/9793< ;24 & 9@. ?3<3 ?98: 8:3 <3=3<B3,

$ # / W $

H5;2D3 ;8 8:9= <43< &C;8853 =: ?= 8:;8 3553=536 3G 3D834 8 C3 ;88;D>34 &< 7 8:3 = @8: @ 8:3 B;5536 &8:3 ;D39<; ;24 8: ;8 :3 8: @H:8 8:;8:3 3 3926A= 5;2 ? 8954 C3 8 & <D3 :9= <9H:8. D328<3, 98853 < 2 < B9=9 2 9= 7;43 ;H;92=8 8:3 5;2 ?:9D: -@2 8 ;D8@;556 ;4 834 8:;8 &;==;@5892H 8:3 <989=:53&8.D328<3 ;24 =9 7 @58;23 @=56 8@<292H 8:39< 3G8<3 7 3 53&8 &5;2> ?:953 53;B92H 8:3 <9H:8 9 7 7 53=834, @8 8:3 ?: 53 =989 2 ?;= = =: <8 98 ?;= 53== 8:;2 8:<33 7953= 92 532H8: 8:;8 8:3<3 ?;= 2 49&&9D@586 92 =:9&892H 8< = <; 9456 &< 7 23 324 &98 8 8:3 8:3< ;24 ;= 8:3 3B328 =: ?34 2 <9=> ?:;83B3< ?;= <@2,

3553=536 ?;= C@=6 ;<<;2H92H :9= 5923 &C;8853 ?:32 8 :9= C9883< 49=; 9287328 :3 <3D39B34 8:3 23?= 8:;8 :3 ?;= =@ 3<=3434 ;D;5;7986 ?:9D: :3 :;4 C332 3G 3D892H 8 DD@< ;8 ;26 7 7328, 9< =9<<6 @<<;<4 :;4 ;<<9B34 &< 7 2H5;24 ;8 8:3 8;95 & D5;24A= D 2B 6 ;24 ?;= 2 ? 2 C ;<4 8:3 =5 M N 92 ;D39<; , ;6, 9< <8:@< ;8 2D3 ?328 &&92 ;C ;8 8 H<338 :97 ;24 8 H9B3 :97 ;2 ;DD @28 &8:3 D 24989 2 92 ?:9D: ;&&;9<= =8 4, @<<;<4 :3;<4 :97 @8 ;24 ,8:32 5;D34 ;= 8< 2H 37C;<H 2 ;26 &@<8:3< &&32=9B3 7 B37328, 3 :;453;<28 8:;8 9< - :2 <3 ?98:8:3 49B9=9 2 &< 7 8:3 ;589D ?;= 2 ?&&8:3 <8@H@3=3 D ;=8 ;24 ?;= <3= 5B34 2 8 8 =89< 8955 8: =3 8< = =: @54 :;B3 C332 5;2434, 392H ;= 98 =337= ;539=@<356 = <8 &7;2 :3 <3= 5B34 8 =533 :2 C ;<4 :9= =:9 & < 23 29H:8 7 <3 ;24 8 D 73 ;=: <3 23G8 7 <292H ;<3= 5B3 ?:9D: D =8 :97 8:;8 D:;2D3 &D 7 7;24V 92H ;<989=:;<76 92 ;98D:34 C;8853 ?:9D: = 7;26 H323<;5= :;B3 92 B;92 43=9<34, 3553=536 ?328 C;D>8:< @H:8 3 =@<&D:;<H34 & <;= : <8 &9&8332 : @<= 7 <3 ?98:8 3 43=89293= &8:3 ;<76 & <8@H;5 ,

8 7;6 C3 ?355 8 H9B3 3553=536A= ;<76 ;8./97 93< K

;B;5<6 $#8: 9H:8 <;H 2= ,	$L#
<89553<6 8:<33 C;883<93=	$$#
=8 <9H;43 955 K	
8:0 =8 C;88,P , , , ,	"LL
"8: E ; ,	N
8: E , , , ,	"NI
<9H;43 3<H@= 2K	a $N M
I N 8 : ,,,

M##M] % $

: 3 <32D : D ; B ; 5<6 : ; 4 C332 : B3<92H ; < @24 / 9 7 93< ; 8 : < @H : 8 : 3 8 ? 328938 : ; 24 > 2 ? 92H 8 : ; 8 - @2 8 ? ; = 2 8 & ; < &&.

< @H : 8 & <? ; <4 ; N I

I<4 <9H ; 43 9H : 892H ; 53K

$ " 8 : ,,,

$ $ ' 59B ' W @ ,' .G

9< <8:@9 : ;4 8;>32 ;55 <3D;@89 2= ;H;92=8 C392H =@< <9=34,' %323<;5 ;23 92 D:;<H3 &'8:3 @8 =8=' :;4 @=:34 9D>38= &' <9&537328 928 ' 8:3 ? 434 :39H:8= 8:;8 &;D34 8:3 G)989=:' =989 2 2 8:3 2 <8:3<2 C;2>' &' 8:3 ;D39<;' K B343883= &' 8:3 $#8:' 9H:8 <;H 2= ?3<3 8:< ?2 @8 8:<33 <' & @< 7953= 8 ' 8:3 &< 28 ' ;24 3= 3D9;556 ?;8D:34 8:3 <<3= /34<;= <;4,' C @8 7942 9H:8 8:36 C3H;2 8 ' :3;< 8:3 ; <;D:' &' 8:3 323765 8:3 <@7C592H &' :9= H@2= ;24 D;9== 2= B3< 8:3 ? 432 C<94H3 &' /955;' ;D;9;' 8<;B3553 4 & < 7953= 8:< @H:.' 8:3 =8955 29H:8 ;9<,' 2 :;5&;2 : @< 3553=536 ?;= ?;<234 8:;8 8:3 <32D:' ?3<3 4<;GB92H 23;<' ;24 =328 8:3 <43< <@24 ;55 :9= C<9H;43= 8 ' C3 97 43< ;<7= ;24 925923 2 8:39< 43=9H2;834 =989 2 ;2 : @< C3& <3 4;6C<3;> @8 8:3 32376 ?;= 5;83 92 ; 3;<92H -@2 8 :;4 :;5834 2 8:3 23;< =943 &'8:3 C<94H3 &' /955;' ;D;9;' & @< 7953= ;?;6 ' 8 ' <3=8 :9= 732 ;&83< 8:39< 29H:8 7 ;<D:' ;24 8 ' ;55 ?' 8:37 ' 8 ' D >' 8:39< C<3;>&;=8,' 8 ?;= 2 8 8955 23;<56 2923 92 8:3 7 <292H 8:;8 432=3 D5 @4= &'4@=8 < 5592H ;5 2H 8:3 <<3= /34<;= <;4 C <3 ?9823== 8 ' 8:3 ; <;D:' &'8:3 <32D:,' :36 ?3<3 9249=892D856 B9=9C53 ' ;7 2H ? 4= ;24 < 5592H @ 5;24 ' ;= 8:36 ;4B;2D34 ?98:' ;' C< ;4 &< 28 2 3;D:' =943 &' 8:3 B955;H3 &' /955;' ;D;9; ;' <3H9 7328 &' D;B;5<6 92 &< 28 ' 8:32 9= 2 2 8:3 53&8 ;24 35;C <43 2 8:3 <9H:8 =943 &' 8:3 < ;4 &92;556 03553<7;22A= H<32;493<= 8:3 <3=3<B3 &' ;<89553<6 ' ;24 8:3 C@5> &' ;<H;< 2A= D;B;5<6,' :3 2H59=:' ?3<3 =@< <9=34 8 ' 2 83 8:;8 8:3 D 5@72= =:?34 ;= 7;==3 &' 4@=8 D 5 @<' 2 8 &' 8:3 D@=8 7;<6 4;<> C5@3,' 2 ;DD @28 &' 8:3 : 8 ?3;8:3< 8:36 :;4 C332 < B9434 ?98:' ?:983 59232 &< D>=' ;24 ?3<3 ?3;<92H 8:396 @29& <7 D ;8= & 5434 ;24 C@D>534 B3< 8:39< >2; =;D>=

3553=536 :;4 C332 3G 3D892H 8 ' =33 8:3 H<3;8 D 5@72 =?3<B3 8 ' 98= 53&8 ' ;24 ; < ;D:' :97 ;5 2H 8:3 B;5536 &' 8:3 ;D39<;' C6 @2:;4 = ;24 C<39< ' @<B ,' @8 92=83;4 & = ' 4 92H -@2 8 D 2892@34 :9= < H<3== 2 <8:?;<4 8955 : ' :;4 D 7 538356 7;<D:34 ;=8 8:3 2H59=:' <9H:8 ?92H ' ;24 256 &< 2834 ;24 43 5 634 ?:32 :3 :;4 H 8 2 ;' 53B35 ?98:' /9793< ,' &83< 4<9B92H &&8:3 =7;55

A 3;D:A= 1? ' $,' N#,' 3 ?;= :97=35& 2 8:3 5923 & 9D>38=' $### =8< 2H ' ?:9D:' :354 8:3 ? 434 :39H:8 &< 7 ?:9D:' -@2 8 ;&83<?;<4= B93?34 8:3 C;8853,

* ; 93< =;6=8:;8 8:3 23?= ?;= C< @H:8 ' C6 ;' %3<7;2 &&&9D3< & 4<;H 2=' ?:' =: ?34= 73 D 2=83<2;89 2,A :9= =8;837328 7@D:' &&32434 8:3 23?=.' C3;<3< ;24=:398 ' ;' =3<H3;28 &'8:3 $#8:' 9H:8 <;H 2=' 2 8 ;2 &&&9D3<,' 3 :;=53&8 :9= < 83=8 92 :9= 9283<3=892H ;@8 C9 H<; :6 ' ;' $NL,

' 5,' 3=593A= ' H $,' N$,

$ L, / E -o'<;

;' J@;<83<' C;88;59 2='8:<33' <3H97328=' &'D;B;5<6';24'=3B328332' H@2='?:953' =3B32' C;88;59 2='23' <3H97328' &'D;B;5<6';24' =9G' H@2='::4' H 23' &&' 2'8:3'8@<292H' 7 B37328,' ?'5 2H' 85 9<'&5;2>'7;<D:'?;='8'C3':3' :;4' 2 8'D;5D@5;834'& <'2 8' 49=D3<292H'8:3' =833 23=='&'8:3'<;B923';8'8:3'& 8' &'8:3' <989=:' =989 2':3'::4'2 8'<3;59R34'8:;8' <32293<';24' 59H2;D'? @54':;B3'8'8;>3';'B;=8'=?33'8'8:3'2 <8:'92' <43<'8'D< ==' 98,' =';'7;883<' &'&;D8'8:36'H 8'D 7 538356' @8' &'8 @D:'?98:':97';24'?:;8';='? <=3'?98:'3;D:' 8:3<,' :39<' 49B3<=9 2' 494' 2 8' C3H92' 8955'8:3'7;92'C;8853'?;='23;<56' B3< , 3;2?:953'8:3' <32D:'H323<;5,43 5 634'8:3'=3D 24'C<9H;43='&':9='8? '49B9=9 2=,' :;<9 8A=' &' 9= 2A=':;24' :7 93<3=A' &' 35;':<43A=' 256'& @<';24';'J@;<83<'C;88;59 2='92';55*;=';'&9<=8'5923'& <'8:3';88;D>' 2'/9793<,' 03 3<7;22A=' & @<'C;88;59 2=' &'H<32;493<='92';'=3D 24'5923'?3<3'& <'8:3'7 7328':354':;D>';='?;='8:3'D;B;5<6';24'8:3'<3=3<B3';<89553<6,' @8'=3B32'H97='?328'& <?;<4'?98:'8:3'&9<=8'5923,' :3' <32D:'D;73' 2'92'8:39<'@=@;5'=8653';'8:9D>'5923' &'189<;9553@<='=@ <834'C6'C;88;59 2' D 5@72=' D5 =3' 92' 8:39<' <3;<,';23';24' 2=8<@8:3<'?3<3'B3<6'D 2X& <8;C56' 5;D34'& <'<3 35592H'8:3';88;D>K' 8:3'5;883<':;4'4<;?2'@ '8:3' $24';24'" 8:'92'5923' 2'8:3'=5 3' &'8:3':955' ;<856':94432'C6';'49 '92'8:3'H< @24';24'5;<H356'D B3<34'C6'B923=';24'C<@=:? 4K' 8:3'"8:';24'LI<4,'?3<3'92' 32'D 5@72'8 '8:3'<3;<'<3;46'8 ';D8';='<3=3<B3,' ;23':;4'H 8'7 =8' &'8:3'<9&537 32' &'8:3'N#8:';24'" 8:' @8'92'&< 28';8'8:3'& 8' &';8:3':955'92';'B3<6'8:9D>'=>9<79=:92H'5923K' 256';'&3?'D 7 ;293=' &'8:37'?3<3'92'<3=3<B3';5 2H'?98:'8:3' #8:'08:3'&;7 @='T49<86':;5&.:@24<348:'AP';8'8:3':3;4' &'8:3'=5 3,' 2'D 2=3J@32D3' &'8:3' <43<'?:9D:'-@2 8'::4';4C 834' : 793<3=A'8? 'C;88;59 2='?3<3' =34'8 ' ;23';24' :;<9 8A=' C<9H;43'8 ' 2=8<@8:3<' 2'8:3'= @8:3<2';5&' &'8:3':955,' 2'3;D:'J@;<83<'8:3'D @<=3' &'8:3'&9H:8'?;='7@D:'8:3'=;73K' 8:3' <32D:'89<;9553@<=' @=:34'@ '8:3'=5 3';7 2H'8:3'C<@=:? 4' ;24'\B9236;<4='=5 ?56'4<9B92H'8:3'<9&537 32'C3& <3'8:37,' :32';='8:36'4<3?':3;<'8:3'D<3=8'8:3'8? ' 2H59=:'C<9H;493<='=@443256'538,'5 =3'8:39<'& <734'C;88;59 2=' @ 2'8:3';==;95;28=,' :3<3' ?;='23'&93<D3'B 5536'&< 7'8:3'=9G' H@2='2'8:3':955'8 ';24'8:32'8:3'" 8:'D:;<H34' ::<9 8A=' 732'92'&< 28'?:953'8:3' $24'=?3<B34'<974';24'8 >'8:37'92'&5;2>,' 23

* :93C;@58'09B,' MM' M"P' 3G <3==3='0;24'?98:'<3;=2P':9='?243<'8:;8'-@2 8'79G34':9='49B9=9 2='=':353==56';24'8:92>='8:;8'98'?@54'::B3'C332'7 <3'<;89 2;58'='=324' 35;C<43';24':9='=3D 24'C<9H;43';&83<' <32293<'92=83;4'&'C<3;>92H'@' 9= 2A=' 49B9=9 2'C6'8;>92H'8:3'=@ <892H'C<9H;43'&< 7'98,

$ N‘)‘ / ‘ W @ ,‘$

2 ‘8< =‘49<3D856‘ =34‘8 ‘8:3‘D 5@72‘C@8‘= 2‘8:3‘H<32;493<=‘ & @24‘8:37=35B3=‘ @243<‘&9<3‘&9A 7‘C 8:‘&5;2>=,‘ 2‘8:3‘= @8:3<2‘ =943‘ 2=8<@8:3<‘8 >‘&< 7‘:9=‘<3=3<B3‘8:3‘LI<4‘?:9D:‘:;4‘2 8‘638‘ &9<34‘;‘=: 8‘;24‘8:<3?‘98‘928‘8:3‘D37383<6‘ &‘/9793<‘&< 7‘?:32D3‘ 98‘43=D32434‘ 2‘8:3‘53&8‘&5;2>‘ &‘8:3‘53;492H‘C;88;59 2‘ &‘H<32;493<=,‘ 2‘8:3‘2 <8:3<2‘=943‘ ;‘23?‘& <D3‘9283<B3234K %323<;5‘ D5;994‘ 2‘ 8:3‘ :39H:8=‘ ;5 2H‘8:3‘ 9792:;‘< ;4‘ :;4‘C332‘ ;D892H‘ ;=‘8:3‘ <3=3<B3‘ &‘ 3553=536A=‘53&8‘?92HK‘ :3‘?;=‘2 8‘233434‘8:3<3‘;24‘ =3392H‘03553<7;22A=‘;88;D>‘8:<3;83292H‘8‘C<3;>‘92‘C38?332‘:97=35& ;24‘ 2=8<@8:3<‘8 >‘;D89 2‘2‘:9=‘ ?2‘<3= 2=9C95986,‘ ;<D:92H‘ ;‘598853‘= @8:?;<4‘;5 2H‘8:3‘<94H3‘:3‘=328‘:9=‘8?‘D 7 ;293=‘ &‘8:3‘ " 8:‘ 9&53=‘;24‘8:3‘59H:8‘D 7 ;293=‘ &‘:9=‘8?‘-923.C;88;59 2=‘8‘&;55‘ 2‘8:3‘<9H:8‘&5;2>‘ &‘8:3,‘H<32;493<=,‘ 8‘8:3‘=;73‘8973‘:3‘8@<234‘ @ 2‘8:37‘8:3‘&9<3‘ &‘8?‘‘&9354.H@2=‘?:9D:‘?3<3‘92‘<3=3<B3‘23;<‘:9=‘ C<9H;43,

:3‘4 @C53‘&5;2>‘;88;D>‘D =8‘03 3<7;22‘7;26‘732‘;24‘C< @H:8‘ :9=‘D 5@72‘8‘;‘=8;24=8955‘C@8‘:3‘:354‘:9=‘H< <294‘& <‘= 73‘8973‘ 8955‘8:3‘LI<4‘D5 =34‘92‘@ 2‘:97‘;8‘8:3‘3;=83<2‘324‘ &‘/9793<‘ B955;H3,‘ 8:‘ <32D:‘;24‘ 2H59=:‘?3<3‘92‘H<3;8‘49= <43<‘8:3‘ : @=3=‘ ;24‘ 32D5 =@<3.?;55=‘ :;B92H‘C< >32‘@‘8:39<‘&<7;89 2,‘ :3<3‘?;=‘;&@<9 @=‘:;24.8 .:;24‘&9H:8‘B 5536=‘?3<3‘9283<D:;2H34‘ ;8‘8:3‘49=8;2D3‘ &‘&9B3‘6;<4=‘;24‘C 8:‘=943=‘@=34‘8:3‘C;6 238‘ &<3356,‘ 8‘5;=8‘8:3‘H<32;493<=‘H;B3‘?;6‘;24‘<389<34‘=@553256‘ 8 ?;<4=‘8:39<‘ <9H92;5‘ =989 2,K‘8:36‘:;45 =8‘7;26‘732‘C@8‘=‘ :;4‘8:3‘LI<4,‘?:‘&< 7‘;‘?3;>‘C;88;59 2‘ &‘ ##‘732‘:;4‘&<86‘ >95534‘;24‘=3B3286.2923‘? @2434,

55‘;5 2H‘8:3‘5923‘8:3‘ <32D:‘?3<3‘2 ?‘&;5592H‘C;D>‘;24‘-@2 8‘ C< @H:8‘@ ‘;‘<3H9732‘8‘ &‘4<;H 2=‘8‘D B3<‘8:3‘<38<3;8‘ &‘8:3‘49=V <43<34‘7;==3=,‘ 3553=536‘2 ?‘<3= 5B34‘8‘7;>3‘@=3‘ &‘:9=‘:;24V &@5‘ &‘D;B;5<6‘K D5 =3‘C3:924‘/9793<‘8:3<3‘?3<3‘4<;?2‘@‘8:3‘$L#‘ =;C<3=‘ &‘8:3‘$#8:‘ 9H:8‘ <;H 2=‘?98:‘$N#‘ <8@H@3=3‘: <=3732‘ ‘92‘8?‘=J@;4< 2=‘ 2‘8:39<‘ &5;2>=‘>‘ T ?‘ ?328938:‘2 ?‘9=‘ 8:3‘.8973‘^A‘D<934‘ 3553=536‘59&892H‘:9=‘D D>34‘:;8‘;24‘ 5 235‘ ;65 <‘?:33534‘:9=‘ <3H9732‘8‘ &< 7‘C3:924‘8:3‘ =:3583<92H*‘:955‘ ;24‘4;=:34‘;8‘8:3‘<38<3;892H‘ <32D:732,‘ :3‘8?‘ <8@H@3=3‘ =J@;4< 2=‘=8;<834‘53B35‘?98:‘:97‘C@8‘;&83<‘H)92H‘;‘&3?‘:@24<34‘ 6;<4=‘;24‘<3D39B92H‘;‘=: 8‘ <‘8?‘8:36‘C< >3‘&355‘928‘49= <43<‘ ;24‘&92;556‘H;55 34‘8‘8:3‘<3;<‘;794‘8:3‘ 8=‘ &‘ 2=8<@8:3<A=

‘ 55‘8:9=‘D 73=‘&< 7‘8:3‘2;<<;89B3‘?:9D:‘‘:;B3‘;5<3;46‘@8959R34‘92‘7 <3‘ 8:;2‘ 23‘ 5;D3‘ &‘ 3<H3;28‘ ;24=:398‘ &‘8:3‘$#8:,

C<9H;43, @8 8:3 $#8:< 43 ;8 8:3 <32D:4<;H 2=?: =8 4 92 8:39< ;8: :988=8 8:< @H:8:37 ;24 8:32 5@2H34;7 2H 8:3 &5692H 92&;28<6=;C<92H 8:37 8 <9H:8 ;24 53&8 ;24 8;>92H 7 ;26 <9= 23<=, :36 D @54 2 8 C3 =8;634 8955 8:36 :;4 :3?2 8:39< ?;6 8:< @H: 8:3 &@H989B3= 8 8:3 5;D3 ?:3<3 -@2 8 :97=35& =;8 ?;8D:92H 8:3 < @8 &:9= 732, :3 D:;<H3 :;4 C332 @=:34 C36 24 ;55 <3;= 2V ;C53 C @24= & <8:3 732 ?3<3 7;4 ?98: 3GD983 7328 ;24 ? @54 2 8 :;58, @8 ;= 8:36 < 43 @ 8:3 <32D: 955 8:36 D:3D>34 C6 ; =8 23 ?;55 ;24 ;8 8:3 =;73 8973 D:;<H34 C6 8:3 8? <3=3<B3 <3H97328= & ;<H;< 2A= : <=3, 8?;= ;? 243< 8:;8 8:3 :3;4V =8< 2H 8< 3<= ?3<3 2 8 ;229:95;834 C@8 8:3 5;<H3< ;<8 <38@<234 92 =;&386 8 8:3 2H59=:5923=53;B92H C3:924 8:37 8:39< D 5 23 ;24 8?3286 732 =5;92 8?3286.& @< ? @2434 ;24 353B32 <9= 23<=, 3 7@=8 2 ?8@<2 8 8:3 2 <8:3<2 ;<8 &8:3 C;8853.&9354 ?:3<3 8:3 7;92 =8<3== &8:3 &9H:892H 494 2 8 C3H92 8955 8:3 32H;H3V 7328 < @24 /9793< ?;= 23;<56 B3<, 599= ?;= 8:3 <3=@58 &8:3 <3D>53== ?;6 92 ?:9D: -@2 8 :;4 =328 :9= &5;2>92H C<9H;43= 8 ;88;D> B3<9738G 5 <34 H< @24, :32 <32293< <3;D:34 8:3 928 ;8 ?:9D: :3 ? @54 2;8@<;556 :;B3 ?:33534 92?;<4 8 D597C 8:3 =5 3= ;5 2H 8:3 @<92:; < ;4 :3 D;73 @ 2 8:3 433 ;24 <@HH34 B;5536 & 534 8:3 =833 23== &?: =3 =5 3= :3 494 2 8 <3;59R3 8955 :3 :;4 ;57 =8 <3;D:34 98= C<92>, ;B92H H@2= ?98: :97 8:3 <32D: C<9H;493< 8: @H:8 8:3 C=8;D53 97 ;==;C53 ;24 8@<234 2 <8:?;<4 ;H;92 92 ;5 2H =?33 C6 8:3 B955;H3 & ;<<;=. J@39<; 8:3 I<4 <;H 2= =8955 :3;492H :9= 7;<D:, 2 8:9= ?943 &5;2>92H 7 B37328 :3 ;==34 J@983 @8 &=9H:8 &8:3 <989=:, @8 59H2;D ?98:8:3=3D 24C<9H;43 ?:9D: -@2 8 :;4 8 54 &&*& < 8:3 2 <8:3<2 49B3<=9 2 ?;= 2 8 D;@89 @=, 3 8 D;73 @ 2 8:3 <;B923 C@8 92=83;4 &8@<292H 98 :3 = @H:8 @8 98= 53;=8 <3D9 98 @= 928 ;24 ;==34 98 23;< 98= :3;4 @243<23;8:8:3 &;<7 &/328 =;, ;B92H D< ==34 :3 43 5 634 :9= 8:<33 C;88;59 2= C< @H:8 @ :9= <9H:8 =: @543<;24 ;=D32434 8:3 H3285 3 =5 3, 6 8:9= 7 B37328 :3 ?;= 43B 892H :9= C<9H;43 8 43=8<@D89 2, 2 8:3 :955. ;C B3 :3 D @54 =33 256 8:3 8:92 5923 & <989=: =>9<79=:3<= C@8

* ;65 <59>3 8:3 :3< 9D 5;>3 ;24 59>3 %<;:;7 8:3 B9D8 < & ;< ==; ?;= 23 & G& <4A= &3?& 8H:892H 732, B3<6 B9=98 <8 1 :<9=8 :@<D: =33= :9= 737 <9;5 =8 23 =8;892H : ?: 3 :;4 <3& <734 ;24 49=D9 59234 8:3 <3H97328 ?:32 98 D;73 : 73 ;=>3538 2 &< 7 8:3 3=8 2493= 92 M# ;24 :;4 <;D89D;556 8 C3 <;9=34 ;23?, 92D3 8:32 98 :;4 C332 92 8:3 2& <8@2;83 3,G 34989 2 8 @32 = 6<3=,

; M

C323;8: :97, 3 : ;4 8;>32 8:37 C6 =@< <9=3$;88;D>34 49;H 2;556 C6 &<3=: 8< = ; 24 D: ;<H34 C6 8:3 8? =J@;4< 2= &4<;H 2= 8: ;8 ;DD 7 ;2934 8:3 <32D: 8:36 <33534 C;D> 92 = 73 49= <43< ;24 ;C;24 234 8:3 H@2= 8: ;8 8:36 : ;4 8;>32, @8 8:36 <;55934 92 ;7 7328 ;24 <38@<234 8 8:3 &9H:8 ;9434 C6 8:3 $"8: 8:3 <3=3<B3 <3H9 7328 & 9H:892H;53A= C<9H;43, :3<3 ?;= :3;B6 &9<92H & < ;7 7328 C@8 B3<6 = 2 <32293<A= 8< = C< >3 ;24 &534): 8:3 =5 3 ?:9D: 8:36 : ;4X@=8 43=D32434, :39< &59H:8 ?;= D B3<34 C6 8:3 4<;H 2= ?: =@&&3<34 =3B3<356 92 : 5492H &&8:3 @<=@3<= 5 =92H 7;26 &&9D3<= ;7 2H 8:37 8:3 6 @2H <<9H:9 ;>92=7;2 &8:3 2; ;<83 &;7956, <32293< ?;= 53&8 2 8:3 &9354 ? 7 9434 ;24 ; <9= 23< ;24 2 8 256 494 :9= 732 5 =3 8:3 H@2= ?:9D: 8:36 : ;4X@=8 <3D; 8@<34 C@8 8:36 ;5= 53&8 C3:924 8:3 8:<33 ?:9D: : ;4 ;DD 7 ;2934 8:39< B2 D 5@72, :39< :@<<934 <38<3;8 ?;= ;DD353<;834 C6 8:3 &9<3 &; : ;5&.C;883<6 C< @H:8 @ &< 7 8:3 <3=3<B3 B:9D: 5;634 @ 2 8:37 ?98: 3&&3D8 8955 8:36 : ;4 5@2H34 4 ?2 928 8:3 <;B923 ;24 <3H;9234 8:39< <9H92;5 =989 2 2 8:3 =983 :39H:8=,

55 8:3 &9H:892H :3<3 : ;4 C332 4 23 C6 3<H@= 2A= ;24 9H:892V H;53A= &9B3 C;88;59 2=, ?3=A C<9H;43 494 2 8 &9<3 ;= : 8 <5 =3 ;7;2 ;24 ;8592 <;?&@<4 ;24 8:3 <8@H@3=3 ?3<3 256 C3H92292H8 ; < ;D: 8:3 =D323 &;D89 2 ?:32 <32293<A= D 5@72 C< >3 @ ;24 &534, :3 7;92 : 2 @<= &8:3 &9H:8 7@=8 C3 H9B32 8 8:3 =8 ;24 M$24 ?: 5 =8 <3= 3D89B356 $;24 N 732 @8 &8:3 8 8;5 &$ $D;=@;5893= =@&&3<34 92 8:9= ;<8 &8:3 ;D89 2,

? ;24 ; : ;5&: @<= ;&83< 8:3 C;8853 C3H;2 8:3 <32D: C 8: 92 8:3 2 <8: ;24 8:3 = @8: &8:3 &9354 ?3<3 <389<92H 92 D 2&@=9 2, :3 <989=: ?3<3 ;?;9892H 3;H3<56 8:3 <43< & < ; H323<;5 ;4B;2D3 3= 3D9;556 3<H@= 2 ? : ?98: 8:3 IN8: ;24 L#8: : ;4 H 8 ;<8 & 59 ;DA= C<9H;43 92234 928 ; 2 ;2H53 &8:3 : 955= &< 7 ? :9D: 8:36 D @54 2 8 3;=956 3=D; 3 ?:32 ;88;D>34, @8 92=83;4 &8:3 <43< 8 ; 4B;2D3 8:3<3 D;73 ; < :9C989 2 8 7 B3 ;24 8:3 <32D: ?3<3 ;55 ?34 8 ?98:4<;? @27 53=834, :3 =8<3;7 &&@H989B3= *&< 7 <32293<A= ;24 59H2;DA=) &9H:8 X 9234 8: ;8 &< 7 8:3 D328<3 8:32 C 8: = : >8:37=35B3= 8 H38:3< ;24 & <734 @ 92 7 <3 < 53== <43< 2 8:3 :39H:8=, :3 <3=3<B3 ;<89553<6 <743< @5 8 ;24 < =8 0 6 : ;4 C332 ? @2434P >3 8 @ ; 49=8;28 ;24 923&&3D89B3 &9<3 8 ?;<4= 8:3 :955 &/9793< 7 <3 8 @8 :3;<8 928 8:39< ?2

* :3<3 ;<3 D53;< ;DD @28= &8:9= &9H:892H 92 5, 3=593A= ;@8 C9 H<; :6 ,N ;= ?355 ;= 92 8:3 2;<<;89B3 &T , ,A &8:3 5=8,E

M##M]' 0 ' ' ' / ' $N

8:39<' 7;92'C 46'C6';' 7 B37328'92';4B;2D3' &':9='C<9H;43' 593' 32376' :;4'5 =8';55' 8:39<';<89553<6'?3<3'<389<92H'92'8:3'@87 =8' D 2&@=9 2'2 23' &'8:37'=;B3'8:3'D;B;5<6'?3<3'<3H@5;<56'& <734';24'98'?;=':9=' 3'8:;8':3'79H:8'C3';55 ?34'8'D 2892@3'8'H'& <?;<4,' @<<;<4'=8955'<37;9234'C4@<;83'8:@H:' 3553=536' 92834'@8'8':97'8:;8':3':;4'2923'8:@=;24'&<3=:'8< ='92':;24'8:;8'3B3<6'=5493<':;4';'4;6A=&4'D >34'92':9=':;B3<=;D>'8:;8'8:3';77@2989 2'<3=3<B3'?;=' <3;46'8'7 B36';24'8:;8'?98:'8?35B3'4;6=A' < B9=9 2='92'8:3'D;7';24';2';753'=8<3' &'7@2989 2='3'::;4'98'92':9=' ?3<8'7;<D:'&<?;<4'C8:'<;9456';24'?98:'D 7 5383'=3D@<986'@8';55'8:3=3';<H@7328=' ?3<3'&'2'3&&3D8,' :3'=5 ?';24'D;@89 @=' @<<;<4'D: =38'C3593B3'8:;8'-@2 8'79H:8'=8955':;B3';'5;<H3';24'928;D8'<3=3<B3'8:;8':9=' D;B;5<6'?;=8'4;2H3<@=8'C3'7344534'?98:';24'8:;8'8:3'49=3<=9 2'&'8:3'<989=:'C<9H;43=08:3<3'?3<3'7<3A8:;2'8:<33'7953=C38?332'9 A=3G8<373'<9H:8';24'3<H@=2A=3G8<373'53&8P'?@54'7;>3';'H323<;5';4B;2D3';'B3<6'49=5D;834';24':;R;<4@=' C@=923==' 593'@883<56'<3&@=34'8'59=832'8';26'&@<8:3<'49=D@==9 2';24';=8:3' <32D:'?3<3'2?'92'&@55'<38<3;8';24'49=; 3;<92H'B3<8:3'3;=83<2':<9R 2'<43<34'8:3'8< ='C;D>'8'D;7 ,' :36'<38@<234'?98:'D 5 8@=&5692H';24'C;24=' 5;692H'4<;HH92H'8:3'D; 8@<34'<32D:'H97='';24'?98:';'D 2=943<;C53'D 5@72'&'<9= 23<='92'8:39<'794=8,' @8'3B3<6'23'&< 7'%323<;5=' 32D3<';24'3<H@=2'4?2'8'8:3'6@2H3=8'<9B;83'?;=@883<56'@RR534';8'8:3'8;73';24'92D 2=3J@328'324'8'=@D:';'H5<9@=4;6,

:3'5 ==3=':;4'C332'B3<6'743<;83 &@<&&9D3<=';24'I'732'>95534'8:9<86.=3B32'&&9D3<=';24'L"'732'?@2434'8?'&&9D3<=';24'&<86.2923'732'79==92H,' &'8:3'88;5'&'$#2'53==8:;2'N I'?3<3'&<7'8:3'832'C;88;59 2='&';23A='2=8<@8:3<A=';24'3<H@=2A=C<9H;43=,' :=3'&'955' ?3=';24'%8592'<;?&@<4'494'2 8'<38@<2';'=92H53'D;=@;586,' :3':;24&94'&'<9=23<=?3<3'7;9256'=@ 5934'C6'8:3'$#8:'9H:8'<;H 2='';24'C6'8:3'8?'<9&53'C;88;59 2='?:=3'9D>38=':;4'C332'4<9B32'92';8'8:3'D 7732D3732 8'&'8:3'&9H:8*,' :3'<32D:'5==3=?3<3'B3<6'49&&3<328K'C8:' 6

* 3==;H3'=328'C6'3<H@=2'C<23'C6'C9=;943.43.D;7,';8;92'3559=:
3 ' 6 ' ' '* ' ' 9 $',' $P,' ;' '' '
* B9432D3'C3&<3'8:3'@<8'&'2J@9<6'&'3553=536'3 ' 6$',' N'P';24'&'5,'<<32=0',' $P,
* @<<;<4A=;DD @28'&':9=?2'B93?=C3&<3'8:3'@<8'&'2J@9<6'3 ' 6$',' N INP,
* 33'8;C53'&'5==3=;8'/973<'92'8:3'3249G,

; 24 : 9 ; @58 ; D>2 ?534H3 ; 8 8 ; 5 & M## ; 24 8 : 9= 7 ; 6 C3 8 ; >32 ; = ; 7 9297 @ 7 K &8 : 3=3 = 7 3 I## <L## ?3<3 @2? 97 434 <9= 23<=, 35 ; C <43 ; 24 8 : <33 C<9H=9493<.H323<; 5= : ; <9 8 <3229N< ; 24 59H2 ; D ; = ?355 d= 5 23X= 6 ; 24 < =8 &8 : 3 ; <89553<6 ?3<3 ? @2434, ? C ; 88 ; 59 2 D 7 7 ; 243<= ?3<3 >95534 ; 8 : 9<4 ; 24 8 : 3 49= ; C534 X <32293< ?3<3 <9= 23<=, 32 ; 24 &&9D3<= ?3<3 ; 59>3 49= : 3 ; <83234K 3B3<6 =92H53 D < = <3=328 : ; 4 C332 32H ; H34K 3B32 8 : 3 =J@ ; 4< 2 & B 5@2833< D ; B ; 5<6 : ; 4 C332 92 ; D89 2 ; H ; 92=8 ; 65 <A= 4<; H 2=K 7 <3 8 : ; 2 : ; 5& 8 : 3 H@2= : ; 4 C332 5 =8 ; 24 8 : 3 &&9D3<= ? : C< @H : 8 C ; D> 8 : =3 8 : ; 8 <37 ; 9234 ; =>34 8 : 37=35B3= 92 ? 243< : ?8 : 36 : ; 4 3B3< C332 3< 7 98834 8 H38 ; ? ; 6 9 @8 ; 8 53 ; =8 8 : 36 ?3<3 977 53=834 92 8 : 39< <38<3 ; 8K @=92H 8 : 3 8? C ; 88 ; 59 2= 8 : ; 8 : ; 4 X@=8 D 73 @ &< 7 9=C 2 ; =, : 9= <3 ; <H@ ; <4 - @2 8 <389<34 @2 : ; <734 C@8 &@55 & 43= ; 9< 2 <<3= /34<; =, 8 ? ; = 2 8 8955 3 ; <56 2 8 : 3 23G8 7 <292H 8 : ; 8 8 : 3 5 ; =8 =8<; HH53<= & : 9= =D ; 883<34 ; <76 4<9&834 92 8 X 92 8 : 3 7 ; 92 C 46,

T 1 + & @5 8 ? : D 77 ; 2434 23 & 8 : 3 8? <3=3<B3 C ; 883<93= , $I K T -A38 ; 9= 8 2 : 3 43 23 ; = B 9< A32237 9 & 24<3 =@< 73= 93D3= f D,

)'); 24' 8: =3' &': 9=' H323<; 5=' ?: ' ?3<3' 2 8' ' ' 8 ' ?3<3' =98892H' 92' D 97D95' &' ?; <' ; 8' <<3=' /34<; =' ?98: ' 43= ; 9<' 92' 8: 39<' = @5=' ; 24' <3= 5B92H' 8 ' ; =>' & <' 83< 7=' 2' ?: 9D: ' 8 ' 3B; D@; 83' <8@H; 5*' 03553<7; 22' ?; =' X@=8' ; C @8' 8 ' <943' 92' 8 ' 8: 3' 2H59=: ' 5923=' 8 ' 32' 23H 89; 89 2=' : 3' 943; ' &' ; 2' T' &&32=9B3' <38@<2' A' C6' 8: 3' <32D: ' ?; =' 92' 8: 3' : 3; 4' &' 8: 3' D; @89 @=' @<<; <4 K' C@8' 2 8' 92' 8: ; 8' & 3553=536 ' ?: ' : ; 4' 7; 43' @ ' 599=' 7924' T 8: ; 8' 8: 36' ? @54' ; D8' 92' <8@H; 5' ; =' 8: 36' 494' 92' H6 8K' 8: 36' 8<934' 8: 39<' =8<32H8: ' 2D3' 92' 8: 3' &9354' ; 24' : ; B92H' &; 9534' 8: 36' ? 9-4' : ; B3' D 2892@34' 8 ' <38<3; 8' 8955' 8: 36' D @54' : ; B3' H 8' 928 ' =; &386,' ' 4 ' 2 8' C3593B3' 8: ; 8' ; 26' D < =' D @54' : ; B3' &; 5532' 2' 8: 3' &5; 2>' &' @<' 7; <D: ' 2' 8: 3' 8?3286.' 8: 9<4,A' : 3' 256' D 97=3' 32' 8 ' 8: 3' <32D: ' 92' : 9=' 929 2 ' ?; =' 8 ' 8: < ?' B3<' ; 26' 943; ' &': 5492H' 8: 3' D; 98; 5' ?98: 4<; ?' 98=' H; <<9= 2 ' ; 24' D< ==' 8: 3' ; H@=' ; 8' ; DD; B37 ' <' /955; &<; 2D; ' <' ; 28; <37 ' C6' 73; 2=' &' 8: 3' = : 9 =' ?: 9D: ' 5; 6' 92' 8: 3' <9B3<' ; 24' 8: 3' 5; <H3' &5338' &' C; <H3=' ?: 9D: ' 9=' ;5?; 6=' 8 ' C3' & @24' 92' ; 24' 23; <' 9=C 2,' ; B92H' ; ==34' 8: 3' ; H@=' 8: 36' 79H: 8' D@8' 8: 39<' ?; 6' 8: < @H: ' 8: 3' 92=97H328=' &' 8: 3' 53783X ' 49= 3<=3' 8: 3' ; 29=: ' 53B93=' ; C @8' 5B; =' ; 24' ; 4; X R' ; 24' <3==' 2 <8: ' 8: < @H: ' =8<37; 4@<; ' 8 ' X 92' 3==93<3= ,' : 9=' B3<6' 943; ' 494' & <' ; ' 7 7328' &5; =: ' 8: < @H: ' 8: 3' C<; 92=' &' = 73' &' -@2 8A=' D @2D95' &' ?; <' ; 8' <<3=' /34<; =' $ C@8' 8: 3<3' 5; 6' 2' 8: 39<' 7924=' 59>3' ; ' 29H: 87; <3' 8: 3' <3737C<; 2D3' &' 8: 39<' ; ?&@5' 7; <D: ' 8: < @H: ' 8: 3' =8<37; 4@<; 2' 7 @28; 92=' 92' 8: 3' <3D3492H' ; @8@72,' &' X @<23692H' @2 =34' &< 7' 9@4; 4' 4<9H ' 8 ' 9=C 2' 8: 36' : ; 4' C332' 23; <56' =8; <B34' 92' 8: ; 8' ?9543<23==' ?: ; 8' ? @54' C3' 8: 39<' &; 83' 9&' 8: 36' : ; 4' 8 ' D@8' 8: 39<' ?; 6' 8: < @H: ' ; 2' 92=@<<3D89 2' ?98: ' 8: 3' 2H59=: ' ; <76' : ; 2H92H' 2' 8: 39<' : 335=,b' : 3' 7 =8' : 3&@5' D @54' 256' =; 6' 8: ; 8' 3<: ; =' : ; 5&' 8: 3' ; <76' 79H: 8' =8<@HH53' 8: < @H: ' 8 ' 54' ; =8953,

3553=536A=' ; <H@7328=' 8 ' ; 5<67 53' : ; 4' 2 ' &@<8: 3<' 3&&3D8' 8: ; 2' 8 ' 924@D3' 8: ; 8' H323<; 5' 8 ' 7; >3' @ ' : 9=' 7924' 8: ; 8' 8: 3' 8< =' =: @54' 7; <D: ' 2 8' 2' 8: 3' 8?3286.=3D 24' C@8' 2' 8: 3' 8?3286.8: 9<4 ' ; 24' 2 8' 2' ; &<; ' C@8' 2' <<3=' /34<; =, ' 9<' - : 2' <3A=' 49B9=9 2' ?; =' 8 .' C3' C< @H: 8' 4 ?2' ; 8' 2D3' 8 ' ; D39<; ' ; 6 ' 8 ' X 92' 8: 3' 7; 92' ; <76' ; 24' 2 8' 8 ' C3' =328' 0; =' 3553=536' : ; 4' @<H34P' 8 ' ; 28; <37,' / /98:

' @5 8' ' $,' $IN,

=' U@3=89 2=' ; =>34' &' 3553=536' C6' @<<; <4' ; 8' 8: 3' @<8' &' 2J@9<6' 0 < .' ' 6 $,' I IP

* 3553=536' 8 ' <,' 8@; <8 ' @H,' $N M#M' 0 3jj,' & $' 9B,' # P$' 3553=536A=' ; 44<3=' ; 8' 8: 3' @<8' &' 2J@9<6' ; ' 6 $,' I$P,

$NM ' / G ' ' W @ ,' $$

8:3' ;94' &'8:9=' <392& <D37328' ;5<67 53' : 34'8 'C3'=8< 2H'32 @H:' 8 '& <D3'C;D>' -@2 8'928 ' 9=C 2,' :3'<3= 5B3' 73;28'&;8;5'435;6$ <3' 494' 2 8' C3H92' 8 ' 49=37C;<>' 8955' @H@=8' $ ' ;24' :9=' 5;=8' 732' 494' 2 8' H38' ;=: <3' 8955' @H@=8' I#,' 2'8:;8' 4;6' 256' D @54' -@2 8' :;B3'C332' ;88;D>34' =3<9 @=56' ;24' 73;2?:953' :3' ? @54' :;B3' C8;9234'K2923' 4;6=' 92' ?:9D:' 8 '& <89&6' :9=' =989 2=' ;24' 8 ' 5;D3' 9=C 2'92' ;'8: < @H:'=8;83' &'43&32D3,' :3'D 2=3J@32D3=' 328;9534' ? @54' :;B3' C332' ;'5 2H' =93H3'8:3' < C;C53' 43B;=8;89 2' &'8:3' <8@H@3=3'D; 98;5';24'8:3' < 8<;D89 2' &' 3<;89 2='928 ' B37C3<' ;24' 3D37C3<,' B32'8:32'8:3<3' ? @54' =8955' :;B3' C332' 5B;=' ;24' 57394;'8 'C3'<3D; 8@<34

@8' 8:92H=' ?3<3' 2 8' 43=89234' 8 ' 8;>3' 8:9=' D @<=3,' ;5<67 53' ?;=' C@=6'4<;&892H' :9=' <43<=' & <'8:3' 7 B3732 8' &'8:3' 23G8' 4;6' 2' <<3=' /34<;='?:32' ;2' ;5;<7' <;2' 8:< @H:' 8:3' D; 7 '8:;8' 8:3' <32D:' ?3<3' ;8' :;24' ;24' 8:3' ?: 53' & <D3' &53?' 8 ' ;<7=,' :9=' <@7 @<' ?;=' D;@=34' C6' 8:3' & 556' &';' <8@H@3=3' D;B;5<6' &&9D3<' ?: =3' B343883=' :;4' =332' <32D:' : <=3732' 92' 8:3' 49=8;2D3$:3' 97;H9234';2';<76' 2'8:3' 7 B3' ;24' <3 <834' 98=' ; < ;D:,' :;8' :3' :;4' <3;556' =332' ?;=' %323<;5' 03 3<7;22' ?98:'8? ' =J@;4< 2=' &'4<;H 2=' ;=' :9=' 3=D <8' C3;<92H' 8:3' ?:983' &5;H' ;24' ;C @8' 8 ' < =3' 8 ' 8:3' <989=:' D 7 7;243<.92.D:93&' 8:3,'3B;D@;89 2' &' <8@H;5' C6' 8:3' <32D:' ;<76' @243<' ;' D 2B3289 2,' *

3' :;B3' ;5<3;46' 73289 234' 8:3'&;D8'8:;8' 2' 8:3'3;<56' 7 <292H' &'8:3'8?3286.=3D 24' -@2 8' :;4' D;5534'8 H38:3<' ;8' <<3=' /34<;=' ;' D @2D95' &' ?;<' D 7 =34' &';55' :9=' =@<B9B92H' H323<;5= 9= 2' 03 3<7;22' 35;C <43'0?:' ';8832434'8: @H:' =@&&3<92H' &< 7'8?' =3B3<3' ? @24=P' :93C;@58'8:3'D:93&' &'8:3' =8;&&' ;B935'8:3' D 7V 7;243<' &'8:3' ;<89553<6,' 5,' /92D328'8:3' D:93&' 32H9233<' ;24' < @==38'8:3' D:93&' D 7 79==;<6' ;8' 9=C 2,' -@2 =' = 9<98=',?3<3' B3<6'5 ?K' :3' C3H;2' C6' 3G 5;9292H' 8:;8' :3' :;4' 256' & @H:8' ;8' /9793<' 8 ' =;B3'8:3' : 2 @<' &'8:3' <32D:' ;<7='2 8' C3D;@=3' :3' : 34' & <' B9D8 <6 ;'=8;837328' ?:9D:' ?955' 2 8' C3;<' 92B3=89H;89 2' 92' 8:3' 59H:8' &' :9=' <3B9 @=' 49= ;8D:34';24' 53883<=' :3' <989=:' :3'=;94' ?3<3' 3G 3D892H' :@H3' <392& <D37328=' &< 7'8:3' =3;K <39<3' ?;=2 ?'7 B92H' 2' C94 =';2 8:3<' <8@H63=3'D < =' 2' ;28;<37K 8:3' <3 <8=' &'8:3' =8;83' &' @C59D' 929 2' 92' 9=C 2' ?3<3' 7 =8' ;5;<792H,' 243<'8:3=3'D9<D@7=8;2D3='@H:'8:3' ;<826'8 ' 8<6'8:3' & <8@23' &' C;8853' ;' =3D 24' 8973,b' 24' 9&' 98' 7@=8' ? 8' 5;2

* :9=' 9=' 3553=536A=' ?2'B93?'3 ' : &$'9B,' $ ML M P,
' &,' & <'-@2 8A=';44<3==' 6'9B,' IL ';24' :93C;@58,

) 4<;?2 && :9= ?<;8: C6 &;9592H 92 ;2 3B32 7 <3 49=;=8< @= &;=:9 2

&83< :3;<92H ?:;8 03 3<7;22 :;4 8 =;6 8:3 8:<33 2H59=: H323<;5= ?98:4<3? 928 ;2 9223< < 7 ;24 ;&83< ; B3<6 =: <8 49=D@==9 2 ;H<334 8 8<3;8, :36 8 54 8:39< B9=98 < 8:;8 :3 7 9H:8 :;B3 ;& <86.39H:8 : @<=A =@= 32=9 2 & : =8959893= ;8 2D3 ;24 8:;8 8:36 ? @54 32 23H 89;89 2= 2 8:3 H323<;5 C;=3 8:;8 -@2 8 ;24 :9= ;<7 6 =: @54 C3 ;55 ?34 8 3B;D@;83 <8@H;5 C6 =3; ?98: @8 ;26 & 8:3 & <7= & D; 98@5;89 2 ;24 C3 <389 7 234 8 8:39< ?2 D @28<6 2 <989=:=:9 =, :3 438;95= ? @54 8;>3 7 @D: 49=D@==9 2K 73;2?:953 8:36 92B9834 03 3<7;22 8 4923 ?98:8:37 ;24 8 =38853 8:3 7;92 5923= & 8:3 2B3289 2 C3& <3 :3 <38@<234 8 :9= D 7V 7;243<, :3<3 ?;= ;5 2H =8. <;249;5 43C;83 ?:9D: =: ?34 8:;8 2 8? 928= 8:3<3 ?;= 59>356 8 C3 8< @C53 23 ?;= 8:3 ?;6 92 ?:9D: 929;B92A= @==9;2 &5338 92 8:3 ;H@= ?;= 8 C3 8<3;834K 8:3 8:3<?;= : ?7@D:8:3 <32D:=: @54 C3 ;55 ?34 8 D;<<6 ;?;6 ?98:8:37 &< 7 <8@H;5, 03 3<7;22 =;94 8:;8 :3 ;=>34 & <2 7 <3 8:;2 8:39<T 7 9598;<6 C;HH;H3 ;24 3J@9 7328= C@8 :3 =337 34 8 :;B3 ;5;<H3 943; & ?:;8 D;73 @24 8 8:3=3 :3;492H=

3;2?:953 8:3 83<7= &8:3=@= 32=9 2 &: =8959893= ?3<3 =@DD3== &@ 6 4<;&834 8:3 5923 & 8:3 Q9R;24<3 <9B3< ?;= 8 C3 &9G34 ;= 8:;8 & 437;<D;89 2 C38?332 8:3 8? : =8=, 398:3< &8:37 ?;= 8 DD@ 6 <<3= /34<;=K ;5<67 53 @243<8 > 8 H38 8:3 ;<79V =89D3 <3D H29R34 C6 <39<3 ;24 8:3 8:3< <8@H@3=3 H323<;5= 92 8:3 &9354, :36 ?3<3 2 8 8 ;4B;2D3 C36 24 39<9; ;24 : 7;<, :3 H;<<9= 2= ;8 5B;= 5 7 394; 329D:3 ;24 35=3?:3<3 ?3<3 8 C3 92D5@434 92 8:3 2B3289 2 @253== 98=: @54 89@.2 @8 8:;8;26 & 8:37 :;4 =@<<3243<34 C3& <3 @H@=8 $?:9D: ;= ; 7;883< & &;D8 8:36 :;4 2 8, :3 @==9;2 &5338 92 8:3 ;H@= ?;= 8 C3 8<3;834 ;= 9& 92 ; 23@8<;5 <8, :9=5;=8 D5;@=3 ?;= 7@D: CX3D834 8 C6 3553=536 ?: & @24 ;5= 3B3<;5 792 < 928= 92 8:3 ;H<33V 7328 & ?:9D: :3 D @54 2 8 ; < B3, @8 C6 8:3 49<3D89 2= &

* 33 8:3 D@<9 @= ;DD @28 & 8:3 7 3< <A= 9283<B93?= ?98: 3H324<3 ;24 :93C;@58 8:3 D:93&= & 8:3 =8;&& 8 @ 28 ;24 -@2 8 ?: ; 3;<34 C3& <3 :97 =97@58;23 @=56 ;8 /;55;4 594 92 -;2@;<6 M#", :3 97 3<9;5 8:@243<= 5;634 = 893<D356 2 8:3 ;<76 & 24;5@=9; 8:;8 8:3 ;<76 & <8@H;5 H 8 && 3;=956 0 :93C;@58 9B, $L ."P, @8 ; 53 2 =;94 8:;8 8:3 2H59=: :;4 =;B34 :97 8:3 ;92 & D<@=:92H ;2 54 &<9324 C6 =32492H ;5<67 53 @<<;<4 ;24 3553=536 C3& <3 ;D @<8.7;<89;5,

* 3553=536 ;8 8:3 @<8 & 2J@9<6 3 & $ 9B, M"P,

;5<67 53 :3 =9H234 8:3 =@= 32=9 2 ;<7= ;&83< ; < 83=85 :9= =@ 3<9 < :;4 8 54 :97 8:;8 995 ?;= T@=353== 8 4<9B3)8:3 <32D:)8 8:3 ?;55 @ 2 928= &'& <7 ,

:3 =@C=3J@328 23H 89;89 2= & < ;43&92983 D 2B3289 2 DD@ 934 =3B32 4;6= &< 7 @H@=8 $I 8 I# 2 8:3 &9<=8.2;734 4;6 -@2 8 3B;D@;834 <<3= /34<;= ;DD <492H) 8 8:3 =89 @5;89 2= & 8:3 ;H<33732 8 7;43 C6 03553<7;22, 3 <389<34 8 8:3 5923 &:955= C3:924 :97 3=8;C59=:92H 9= 2A= 49B9=9 2 ;8 ;&<;;24 35;. C <43A= ;8 283D:9J@3, ;5<67 53 2 8:3 8:3< :;24 7 B34 :9= :3;4 J@;<83<= & <?;<4 8 ;7;5:;5 ; =989 2 X@=8 2 <8:' & <<3= /34<;= ;24 256 2923 7953= &< 7 /9793< , 2 8:9= <3= 3D8 :3 < &9834 53== 8:;2 8:3 <32D:' &< 7 8:3 =@= 32=9 2 &: =8959893= K 98 9= 8<@3 8:;8:3 H 8 539=@<3 8 49=37C;<> <3A= 8< = C@8 -@2 8 H;9234 8:3 7@D:' 7 <3 97 <8;28 ;4B;28;H3 &;= ;&3 <38<3;8 8 ;H 4 =989 2;24 &539=@<3 8 =8<32H8:32 :97=35& 92 98, 8.7@=8 2 8 C3 =@ =34 : ?3B3<8:;8 :3 ?;= 92 ;D 7& <8;C53 =98@;89 2 9=C 2 ?;= =338:92H ?98:' =@ <3==34 <3C3559 2, :3 23?= & <32D:' B9D8 <93= ?:9D:';4 C332 @C59=:34 8 J@938 8:3 3 53 59;4 = 2 C332 49=D B3<34 8 C3 2 8:92H 7 <3 8:;2 ;2 97 @4328 &9D89 2, 8 ;26 7 7328 ;2 92=@<<3D89 2 79H:8 :;B3 C< >32 @8 8:3 H;9 9= 2 ;24 8:3 7 C ?3<3 ;59>3 92 ;=8;83 @d 3G8<3732 3< / @= 832=9 2 ?:9D:' 8 >= :; 3 2 8:3 23 =943 92 ;==;==92;89 2= ;24 2 8:3 8:3< 92 ?;28 2 &9<92H ;8 3B3<6 3<= 2 ?: ; < ;D:34 ;' =3289235 <3&@=34 8 =8;24 ?:32 D:;5532H34 C6 ;' ;8< 5,

:3 23H 89;89 2= & < ;43&92989B3 D 2B3289 2 =@&&3<34 =3B3<;5 D:3D>=, 8 23 7 7328 98 =3373459>356 8:;8 8:3 <8@H@3=3 ;<76 79H:8) H9B3 8< @C53, %323<;5 <39<3 ;<<9B34 ;8 ;7;5:;5 92 ;=8;83 &':9H:' ?<;8:' 8 < 83=8 8:;8:3 @H:8 8 ' :;B3 C332 7;43 ; ;<86 8 ' 8:3 =@= 32=9 2 &: =8959893=, :3<3 ?;=' ;= ; 93< ', <37;<>=' 7 <3 5;@=9C95986 8:;2 <3;5 & @24;89 2 92 :9= CX3D89 2 & < :9= 7 8536 ;<76 :;4 8;>32 2 ;<8 ?:;83B3< 92 8:3 3<;89 2= 8:;8 :;4 C< @H:8 -@2 8 8 ' :9= >233=, @8 :3 D @54 7;>3 ;' 49=892D8 928 ?:32 :3 ;=>34 C6 ?:;8 ;@8: <986 ;5<67 53 :;4 H9B32 < 79=3= ;= 8 ' :9= 23@8<;5986 92 8:3 ;H<33732 ?98:' 03553<7;22 ' < 5;94 4 ?2 5923= ?:9D:' :3 ?;= 2 8 8 . ;==, <39<3 ?;= ;55 8:3 C 543< C3D;@=3 :9= 53B93= ?3<3 2 ?' C392H =8<32H8:3234 C6 8:3 & <D3= &< 7 <8 ' ?:9D:' 8:3 9= : ' :;4 5;8356 <;9=34 ' ?:953 ;' =7;55 ;29=:' C<9H;43 @243< 8:3 ;<J@9= &' /; ;4;<3=' 5328 C6

T 3553=536A= 3B9432D3 C3& <3 8:3 @<8 &' 2J@9<6 3 ' 6 $,' MIP, * ;93<'9,' $$N

,8:3 %;59D9;2 -@28; : ;4 D 73 4 ?2 ;= &;< ;= %@;<4;, @8 :3 D 2832834 :97=35& ?98: < 83=8= ?98: @8 D 7 798892H ;26 43&92983 ;D8 8:;8 79H:8 :;,B3<3243<34 8:3 2B3289 2979 ==9C53,

7 <3 4;2H3< 99= = @<D3 ==9C53 <@ 8@<3 ?;= 8:3 B93?' &8:3 =98@;89 2 8;>32 C6 X< :;<53=,' 88 2 8:3 ;479<;5 92 D 7 7;24 &8:3 <989=:C5 D>;492H =J@;4< 2 &&8:3 7 @8:' &8:3 ;H@=,' = 3553=536 :;4 & <3=332 8:3 2;B;5 732 ?3<3 4383<79234 8 =3D@<3 8:3 ==3==9 2 &8:3 @==9;2 =:9 = &' 929;B92,' 88 2 <3&@=34 8 3283<8;92 8:3 < =;5 8:;8 =@D:;' & <D3 =: @54 C3 ;55 ?34 ;' &<33 43 ;<8@<3 &< 7 9=C 2 ;= 9&' &< 7 ;' 23@8<;5 <8 ;24 =: @54 C3 H9B32 ;'5 2H =8;<8 C3& <3 C392H @<=@34,' 3:;4 :354 8:3 @==9;2= @243< C5 D>;43 & < 7;26 ;' ?3;<6 7 28: ;24 ?;= 2 8 H 92H 8 ;C;24 2 :9= : 54 @ 2 8:37,' :6 =: @54 8:3 <32D:3B;D@;89 2 &' <8@H;5 5;D3 929;B92 92 ;' C3883< =989 2 8:;2 :3 :;4 3B3< DD@ 934 C3& <3b :3 ;479<;5 43D5;<34 8:;8 :3 =;?' 2 <3;= 2 ?:6 8:3 @==9;2= =: @54 C3 92D5@434 92 8:3 2B3289 2;8 ; ,' &8:3<3 ?;= H 92H 8 C3 ;26 ;H<33732 8 7;43 ?98:' 8:37 :3 =: @54 D 24@D8 98 :97=35& 8<3;892H 49<3D856 ?98:' 929;B92 92=83;4 &85B< @H:' ;' <32D:' 9283<7349;<6,

9< 3?' ;5<67 53 ?;= & <D34 8 <3 <8 8 8:3 <32D:' D 7V 7;243< 8:3=3 CX3D89 2= &8:3 ;479<;5,' 8 =33734 ==9C53 & <' ;' 7 7328 8:;8 8:3 49&&9D@586 ? @54 2 8 C3 H 8 B3<';24 8:;8 ?;< 7@=8 <3D 7732D3,' 3553=536 =8< 2H56;4B9=34 :9= D:93& 8 8<68:3 H;73 &' C5@&& 8 ;22 @2D3 8 -@2 8 8:;8 3<;89 2= ? @54 C3 <3=@734 ;8 8:3 324 &'8:3=89 @5;834 & <86.39H:8: @<= ;= 9< :;<53= 88 2 :;4 CX3D834 8 8:3 83<7= &'8:3 ;<79=89D3 C@8 8:;8 :3 ?;= <3 ;<34 8 8;>3 928 D 2=943<;89 2 ;26 23?' < =;5= ?:9D:' 79H:8 C3 7;43 8 :97' C3& <3 8:3 9283<B;5 &'8? 4;6= 3G 9<34 0 @D:' ;' &9<7 459D6 :38: @H:8 ? @54 924@D3 8:3 <32D:' 8 6935 4 8:3 928 ;55 8:3 7 <3 C3D;@=3 -@2 8 ;24 929;B92 ?3<3 >2 ?2 8 C3 2 B3<6 C;4 83<7=,' @8 ;5<67 53 ? @54 2 8 ;DD3 8 8:9= 5;2,' 3 73<356 <3 <834 8:3 ;479<;5A= < =;5= 8 -@2 8 ?98: @8 ;26 9289 7;89 2 8:;8 8:3 <3=@7 89 2 &' : =8959893= 7@=8 <3=@58 &< 7 8:39< <3X3D89 2,' :9= 7 B3 5;D34 8:3 ?3< &' 5;692H 8:3 H;73 &' C<;H 92 8:3 <32D:7;2A= :;24=,' 3392H 8:;8 ;5<67 53 494 2 8 =337 8 43=9<3 8 C<3;> &&23H 89;89 2= :3 ;==@734 ;2 9249H2;28 8 23 ;24 C3H;2 8 8;5>' &' :9= 4383<792;89 2 2 8 8 D 2D343 ;2 92D:' ;24 &'8:3 :;<7 8:;8 :3 D @54 4 9&' :3 ?3<3 & <D34 8 &9H:8 T :3 2H59=:' 79H:8 8;>3 ;?;6 8:3 :;5&.4<;&834 D 2B3289 2 :3 A B9432D3 &' 3553=536 C3& <38:3 @<8 & 2J@9<6; ' 6 $,'M ." P,

$ $ / , W @ ; I#

? @54 : ; B3 2 23 &98, 3 ? @54 43&324 9=C 2 =8<338 C6 =8<338K :3 ? @54 C@<2 ;= 7@D: &98 ;= :3 D @54 2 8 : 54 ; 24 98 =: @54 D =8 8:37 43;< 8 8 ;>3 &< 7 :97 ? : ;8 <37 ;9234*,A 8 8:3 =; 73A 8973 :3 7 ;43 ;5 &92;5 < =;5 8 929;B92 8 : ;8 :3 =: @54 @8 ;=: <3 :9= N ###=3; 732 ;24 7 ;<923= 8 8 ;>3 ;<8 92 8:3 43&32D3 &9=C 2 2 8:3 5;24 =943, :9= ?;= 256 ;<8 &8:3 H; 73 &C5@&& A; 24 92832434 & < 8:3 C323&98 &8:3 2H59=: <;8:3< 8:;2 &929;B92 & <-@2 8 >23?3 3<&3D856 ?355 &< 7 8:3 5;883<A= <3B9 @= D 24@D8 8:;8 :3 ?;= C328 2 5;692H 9= ?2 :;24 ;24 ? @54 2 8 &9<3 ; =92H53 =: 8 8 :35 8:3 <32D:,

-@2 8A= 43= 3<;83 5;2H@;H3 ?;= 92 &;D8 2 7 <3 8:;2 ; 43B9D3 8 =J@33R3 C3883< 83<7= @8 & ;5<67 53, :3 ;D8@;5 928 2 ?:9D: 8:3 ;<H@7328 H<3?: 8 ?;= ; 73<3 <383G8 & < 8:3 @==9;2 ;479<;5 @883<56 <3&@=34 8 ;==9=8 8:3 <32D: ; 24 92897;834 8:;8A :3 =: @54 <3&3< 8 D 2D5@43 ;= 3 ;<;83 D 2B3289 2 &: 9= ?2 ?98: 9< :;<53= 88 2, 53;<56 98 ?;= 2 8 ? <8: ?:953 & < 8:3 @>3 &C<;283= 8 <9=>; 268:92H 2 C3:;5& &=@D: ;8 < 94 ;556,

DD <492H56 8:3 2B3289 2 ?;= <34@D34 8 ; 43&92989B3 & <7 C38?332 @H@=8 $;24 I#, 5 235 %3 <H3 @<<;6 8:3 J@;<83<V 7;=83<.H323<;5 ;D834 ;= 8:3 <989=: 23H 89;8 < ? :953 03553<7;22 D 2892@34 8 <3 <3=328 -@2 8, :3 438;95= ?3<3 =388534 92 9=C 2 ?:3<3 @<<;6 8 > @ :9= <3=9432D3 =32492H C;D>&<3J@328 <3 <8= 8 :9= =@ 3<9 < &&9D3< ;8 ;7;5:;5, ;5<67 53 ;24 88 2 D;<<934 8:39< 928 92 8:;8 2 ;55@=9 2 ?:;83B3< ?;= 7;43 8 8:3 @==9;2= 92 8:3 4 D@7328, -@2 & & @24 ;= ;5B3 & < :9= 92X@<34 <943 C6 <3737C3<92H 8:;8 :3 :;4 =59 34 ;7 3289 2 & ; 53 2 ;= T 7 3< < &8:3 <32D: A 928 8:3 83G8 &8:3 =@= 32=9 2 & : =8959893= K 92 8:9= :3 8: @H:8 8:;8 :3 :;4 ? 2 ;H<3;8 =@DD3== & < 8:3 <989=: % B3<27328 :;4 :98:3<8 <3&@=34 8 <3D H29R3 ;26 =@D: 89853 ;24 :;4 D 2=8;2856 9<<98;834 98= ;4B3<=;<93= C6 ;55@4V 92H 8 8:3 7;=83< &8:3 2892328 ;= T %323<;5 2; ;<83 A < 8:3 :;D8@;5 :3;4 &8:3 <32D: 3G3D@89B3,A

:3 83<7= &8:3 2B3289 2 2334 D5 =3 =8@46`S 98 D 7 <9=34 8?3286.8? ;<89D53= ;24 8:<33 =@ 537328;6 ;<;H<; := &;44324;; :3 &9<=8 ;<89D53 < B9434 8:;8 8:3 <32D: =: @54 =@<<3243< 9=C 2

* 6 9B, I $;24 :93C;@58,

* <89D53 &8:3 ;<79=89D3 73289 234 T :9= 7 3<9;5 ;24 6;5 ;X3=86 ; 53 2 A 8: @H: 8:9= & <7@5; 494 2 8 <3D@< 92 8:3 2B3289 2 ? :9D: 256 = >3 &8:3 T <32D: <76,A

* :3 &@55 83G8 ?955 C3 & @24 92 8:3 3249G,

J ; 24' 8 : 3' <8@H@3=3' & <8<3==3=' 92' 8 : 39<' 3G9=892H' D 24989 2 ' ?98 : @8' : ; < 7 92H' <' 49= 7 ; 28592H' 8 : 3 7 ,' : 3' =3D 24' ; 24' 8 : 9<4' H<; 2834' 8 : 3' ; < 7 6' &' - @2 8' ;' = ; &3' 43 ; <8@<3' C6' =3 ;' 92' 2H59= : ' B3==35=K' 8 : 36' ?3<3' 2 8' 8 ' C3' D 2=943<34' <9= 23<=' &' ? ; <' 7 9H : 8' 8 ; >3' 8 : 39<' ; < 7 =' ; 24' C ; HH ; H3 ' ; 24' ?3<3' 8 ' C3' 5 ; 2434' ; 8' ; 26' <8' C38 ? 332' D : 3& <8' ; 24' A <9328,' : 3' & @<8 : ' &9&8 : ' ; 24' =9G8 : ' ; <89D53=' ; 8837 834' 8 ' 43&923' 8 : 3' < 3<86' ? : 9D : ' 8 : 3' <32D : ' 7 9H : 8' 8 ; >3' ; ? ; 6 8 : 39<' : <=3=' 8 : 39<' H@2=' &' <32D : ' D ; 59C<3' 0C@8' 2 8' ; 26' 8 : ; 8' 8 : 36' 7 9H : 8' : ; B3' & @24' 92' 8 : 3' <8@H@3=3' ; <=32 ; 5=P ' ?98 : ' =9G86' < @24=' & <' 3 ; D : ' : 93D3 ' 8 : 39<' ? ; H 2=' 8 : 39<' 7 9598 ; <6' D : 3=8 ' 92' = : <8 ' T' ; 55' 8 : 39<' 3J@9 V 7 328 ' ; 24' ; 55' 8 : ; 8' 9=' D 7 <3 : 32434' @243<' 8 : 3' 2 ; 7 3' &' 9G< 3986' & 8 : 3' ; < 7 6 , A' 8' ? ; =' & @24 ' 5 ; 83<' 2 ' 8 : ; 8' 8 : 3=3' ; < ; H<; : =' : ; 4' C332' 8 ' 5 =356' ? <434 ' ; 24' H ; B3' 7 @D : ' 32453=' DD ; =9 2' & <' 49= @83=,' : 3' 23G8' =9G' ; 9)89D53=' =388534' 8 : 3' 7 ; 223<' 92' ? : 9D : ' 8 : 3' 43 ; <892H' ; < 7 6' ? ; =' 8 ' 37C ; <> ' ; 24' 8 : 3' <43<' 92' ? : 9D : ' 3 ; D : ' &' 8 : 3' =8< 2H : 54=' 8 : ; 8' 98' 3B ; D@ ; 834' ? ; =' 8 ' C3' H9B32' @ ' 8 ' 8 : 3' <989= : ,' : 3' 8 : 9<83328 : ' ; 24'& @<83328 : ' ; <89D53=' ; << ; 2H34'& <' 8 : 3' ; 928 7 328' &'D 7 7 9== ; <93=' C6'3 ; D : '=943 '8 '43 ; 5' ? 98 : ' 49= @834' 928=' 92' 8 : 3' 2B3289 2 ' ; 24' ; 4434' 8 : 3' D@<9 @=' D5 ; @=3' 8 : ; 8' T' ? : 3<3' ;' 4 @C8' ; < =3' ; =' 8 ' 8 : 3' 73 ; 29<9H' &' ; 26' ; <89D53 ' 98' = : @54' C3' 3G 5 ; 9234' & ; B @<; C56' 8 ' 8 : 3' <32D : ' ; < 7 6 , A @8' 8 : 3' &9&83328 : ' =9G83328 : ' ; 24' =3B3283328 : ' ; <89D53=' ? 3<3' 8 : 3' 7 =8' CX3D89 2 ; C53' ; <8' &' 8 : 3' 2B3289 2 ,' 8' ? ; =' 8<@3' 8 : ; 8' 8 : 936' =3D@<34' 8 : ; 8' 2 ' 7 <3' 8 ; G3=' <' D 28<9C@89 2=' ? 3<3' 8 ' C3' < ; 9=34' C6' -@2 8' ; 24' 8 : ; 8' @249=D : ; <H34' &923=' ? : 9D : ' : 3' : ; 4' 5 ; 94' 2' 8 : 3' <.8@H@3=3' = : @54' C3' <3H ; <434' ; =' D ; 2D35534,' @8' 8 : 36' ; 5= ' < B9434' 8 : ; 8' <32D : ' D9B959 ; 2=' 92' <8@H ; 5' 7 9H : 8' 398 : 3<' 43 ; <8' ?98 : ' 8 : 3' ; < 7 6 ' <' 9&' 8 : 36' <3&3<<34' 98 ' 7 9H : 8' C3' ; 55 ? 34' 8 ' <3 7 ; 92' C3 : 924' @2 7 53=834 ' ; 24' : ; B3' ;' 63 ; <' 92' ? : 9D : ' 8 ' 49= =3' &' 8 : 39<' < 3<86,' : 9=' 7 9H : 8' 3<' ; =' ; ==K' 2 8' = ' : ? 3B3<' 8 : 3' 32=@92H' D5 ; @=3 ' ? : 9D : ' < B9434' 8 : ; 8' <8@H@3=3' =@CX3D8=' = : @54' 2 8' C3' <3243<34' ; DD @28 ; C53' & <' 8 : 39<' 5989D ; 5' D 24@D8' 4@<92H' 8 : 3' <32D : ' DD@ ; 89 2K' ; 55' ? : ' : ; 4' 8 ; >32' =3<B9D3' ? 98 : ' 8 : 3' @=@< 92H' H B3<2V 7 328' ? 3<3' 8 ' C3' 5 ; D34' @243<' 8 : 3' < 83D89 2' &' 8 : 3' <989= : ' ; 24' 8 ' =@&&3<' 2 ' 92X@<6' 92' 3<= 2' <' < 3<86,' : 36' ? 3<3' ; 5= ' 8 ' C3' H< ; 2834' 59C3<86' 8 ' 43 ; <8' ? 98 : ' 8 : 3' <32D : ' ; < 7 6' 9&' 8 : 36' D : =3, : 3' &9B3' <3 7 ; 9292H' ; <89D53=' ? 3<3' @29 7 <8 ; 28,' : 3' 39H : 83328 : ' =3D@<34' 8 : 3' <353 ; =3' &' ; <; &&; ' ; 24' 8 : 3' <3=8' &' - @2 8A=' ; 29= : ' <9= 23<=' ; 24' < B9434' 8 : ; 8' 92' <38@<2' 8 : 3' &3 ? ' <32D : ' &&9D3<=' &' 8 : 3' ; < 7 6' &' <8@H ; 5 ' ? : 7 ' 8 : 3' ; 29 ; <4=' : ; 4' D ; 8@<34' ; 8' <8 ' ; 24' 5B ; = ' = : @54' C3' 59C3< ; 834,' : 3' 8 ? 3286.&9<=8' 3< 7 98834' - @2 8 ;

$ L ' (A ' ' W @ ,'
8 ' =324' 23' &' :9=' ;943=.43.D;7 ' 49<3D856' 8 ' <;2D3' 8 ' D;<<6' 8:3'
23?=' &' 8:3' 2B3289 2' =)' 8:;8' <3 ;<;89 2=' 79H:8,C3' 7;43' & <'
8:3'<3D3 89 2' &' 8:3'8< =
:<33' @297 <8;28' =@ 5377328;<6';<89D53=' ?3<3' 3@9434' C35 ?' 8:3'
=9H2;8@<3=' &' @<<;6';24' 03553<7;22K 23' =89 @5;834'8:;8' 832D:'
D9B959;2' <9= 23<=' 92'8:3':;24=' &'8:3' 2H59=:';24' <8@H@3=3'=: @54'
C3' <35 =34 ' ;2 8:3<8:;8' -97 8A=' ;<76' =: @54' =@C=9=8' 2' 98=' ?2'
7;H;R923=' 8955' 98' 37C;<>34 ';'8:9<4'8:;8'8:3' <989=:'=: @54' 3<798'
8:3'328<6' &' < B9=9 2=' 928 ' 9=C 2'2 ?'8:;8'8:3' 2B3289 2':;4'
C332'D 2D5@434,
@D:' ?;=' 8:3' D353C<;834';H<337328'?:9D:';?;=' 43=89234'8 'H;92'
;' 7 =8',@2:; 6'2 8 <9386'92' 2H5;24' @243<' 8:3' 2;73' &'8:3'
I' 2B3289 2' &' 928<; A';'43=9H2;89 2'?:9D:'98' 9=' :;<4'8 '9743<.'
=8;24'& <'98' ?;=' &9<=8' =>38D:34';8' <<3=' /34<;=';24'?;=' 49=D@==34'
;24'<;89&934';8' 9=C 2' :3' 256'D 223G9 2'?:9D:'98' :;4'?98:'
928<;'?;=' 8:;8' ;5<67 53A=' 49= ;8D:'8 '8:3' <989=:'% B3<27328'
32D5 =92H'8:3' 4 D@7328'92' 98=' 5;83=8'& <7 ' ?;=' 4;834'&< 7'8:;8'
53;=;28' = 8'92'8:3'32B9< 2=' &' 9=C 2,' @8'98' ? @54' 3<:; ='
C3' 34;289D'8 'H9B3';26' 8:3<2;73'8 '=@D:';'?355.>2 ?2'4 D@7328'
8:;2'8:;8'7943<?:9D:'98':;=' C332'>2 ?2'& <'8:3'5;=8' 292386.8:<33'
63;<=,
&83<';'D;<3&@5'92B3=89H;89 2' &'8:3'438;95='\C&'8:9=' &;7 @=';H<33V
7328'8:3'D 2D5@=9 2';8'?:9D:'8:3'97 ;<89;5'=8@4328'?9 ' < C;C56'
;<<9B3'9=' 8:;8'?:953' 2'8:3' 7 9598;<6'=943' 98' ?;=' X@=89&9;C53 '98'
<3=32834'H<;B3' 5989D;5'&;@58=,' 2' <43<'8 '<3D B3<' 9=C 2'?98:'
98=';<=32;5='98=' & <8=';24'98=' =:9 92H' ;55'928;D8' ;5<67 53' 79H:8'
?98: @8'=3<9 @=' C5;73':;B3'H<;2834'3B32'7 <3'8 '8:3' <32D:,' 6'
8:3' 2B3289 2':3'=;B34'2 8' 256'8:3'?3;58:' &'8:3'D; 98;5';24'
8:3'59B3=' &'8:3'8< =' ?: ' 7@=8' :;B3'&;5532'92' =8 <792H'98'C@8'
7 =8'97 <8;28' &';55'8973,' &':3':;4'C@8'>2 ?2'8:3'B;5@3' &'
8:;8'D 7 7 4986':3'79H:8':;B3'C332'92' ;4<94';8'8:3':3;4' &'
;55':9=' <989=:'8< =' C6' D8 C3<' <'3B32'3;<593<,' T '4'2 8'
>2 ?'?:;8' 9<' 3?' < =3=' 8'4 A'?< 83' 3553=5&36'8:3'7 <292H'
;&83<'8:3' 2B3289 2' ?;=' =9H234'T C@8' 9&' '?3<3'92' :9=' =98@;89 2'
' ? @54':;B3'$# ###' 732'92' ;4<94'92'53=='8:;2';' 7 28:'&< 7'8:9='
4;6'/' @8'8:3'97 <8;2D3' &'8973'?;=' 23B3<'<3;59R34'C6'8:3' 54'
D 7 7;243<.92.D:93&K :3'?;=' =@ 3<=3434'5 2H'C3& <3' :9=';<76':;4

)' <'8:3' =8<;2H3' ?;6'92' ?:9D:'-@2 8' @8959R34'8:9=' 3<79==9 2'& <':9='
3<= 2;5 < &98'=33' ;H3' $M ,
* 3553=536'8 ' <,' 8@;<8' 3 8,' ' M##M; ' & '9B,' $ P,

)&8B32' 7 B34'@ ' 8 ' 8 : 3' <8@H@3=3'&< 2893<,' >92H ' 8 : 3<3& <3 ' ;8' 8 : 3, 2B32 89 2' 92' 8 : 3' C< ; 43=8' ;=X-3D8 ' ?3' : 54' 8 : ; 8' 98=' 7 9598 ; <6' ; 4B ; 28 ; H3=' 3289<356' @8?39H : 34' 8 : =b' ? : 9D : ' 7 9H : 8' : ; B3' C332' =3D@<34' C6' ;' < 5 2H ; 89 2' &' : =8959893=,' @8' 8 : 9=' D 2D5@=9 2' 4 3=' 2 8' 7 3 ; 2' 8 : ; 8' 8 : 3<3' ?3<3' 2 8' 928=' 92' 8 : 3' 7 9598 ; <6' ; <8' &' 8 : 3' ; H<33b.' 732 ' 8 : ; 8' 7 9H : 8' : ; B3' C332' 7 49&934' ?98 : ' ; 4B ; 28 ; H3,

8' 9=' ? : 32' ?3' 8@<2' 8 ' 8 : 3' C89D ; 5' =3D89 2' &' 8 : 3' 2B3289 2' 8 : ; 8' ?3' 59H : 8' @ 2' H< ; B3' &; @58=' ; 24' 7 9=8 ; >3=) 2' 8 : 3' ; <8' &' ; 5<6 7 53,' : 3' &9<=8' ; 24' & <3 7 =8' ? ; =' 8 : ; 8' : 3' =9H234' 8 : 3' 4 D@V 7 328' ?98 : @8' <3B9 @=56' =@C 7 98892H' D3<8 ; 92' <89 2=' &' 98' 8 ' 8 : 3' <8@H@3=3' H B3<2 7 328,' 2' 8 : 3' =9G83328 : ' ; 24' =3B3283328 : ' ; <89D53=' 8 : 3' <989= : ' H323< ; 5' 8 >' @ 2' : 9 7 =35&' 8 ' H< ; 28' D3<8 ; 92' &; B @<=' C 8 : ' 8 ' <32D : ' D9B959 ; 2=' <3=9432' 92' <8@H ; 5 ' ; 24' 8 ' <8@H@3=3' =@CX3D8=' ? : ' : ; 4' 8 ; >32' =3<B9D3' @243<' -@2 8 ' ? : 9D : ' : 3' : ; 4' 2 ' ; @8 : <986' 8 ' D 2D343,' : 3=3' ?3<3' 928=' ? : 9D : ' D 2D3<234' 2 8' 8 : 3' <989= : ' ; < 7 6' C@8' 8 : 3' <8@H@3=3' D9B95' ; 4 7 929=8< ; 89 2 ' ; 24' = : @54' 2 8' : ; B3' C332' 43D9434' ?98 : @8' ; ' D 2=@58 ; 89 2' ?98 : ' B@' ; 5593= ' ; 24' ; ' 3< 7 9==9 2' &< 7 ' 8 : 3 7 ' 8 ' 7 ; >3' 83< 7 =' 2' 8 : 39<' C3 : ; 5&,' : 3' =9G83328 : ' ; <89D53' ; 55 ?34' <32D : 7 32' <3=9432' 92' 9=C 2' 8 ' <3 7 ; 92' 8 : 3<3' & <' ; ' 63 ; <' ; &83<' 8 : 3' 2B3289 2 ' 9&' 8 : 36' 494' 2 8' D : =3' 8 ' 53 ; B3' 8 : 3' D @28<6' ?98 : ' -@2 8' ; 24' : 9=' 8< =,' ' 3< 7 98' =@CX3D8=' &' 8 : 3' : =8953' ?3<' 8 ' <3 7 ; 92' 92' 9=C 2' & <' = ' 5 &; H' ? ; =' &' D @<=3 ' 7 =8' 49=8 ; =83&9 5' 8 ' 8 : 3' <8@H@3=3' H B3<2 7 328 ' ? : 9D : ' ? ; =' 2 ; 8@< ; 556' 43=9< @=' &' 3G 35592H' ; 8' 2D3 ' ; DD <492H' 8 ' 8 : 3' <492 ; <6' D@=8 7 =' &' ? ; <' ; ' C 46' &' 3<= 2=' 7 ; 26' &' ? : 7' : ; 4' 7 ; 43' 8 : 3 7 =35B3=' 8 : 3' ; <823<=' ; 24' 92=8<@ 7 328=' &' -@2 8A=' 3D@5 ; 89 2=' ; 24' ? : ' & <' 8 : 3' 23G8' 8 ? 35B3' 7 28 : =' ? @54' ' =3<B3' ; =' = 93=' ; 24' @<B36 <=' &' 9283559H32D3' 8 ' 8 : 3' <32D : ' <2 3< <,' 8 : 92H' 7 <3' 8 : ; 2' 8 : 3' 53 ; B3' 8 ' J@98' 9=C 2' 92' -@2 8A=' ? ; >3' = : @54' : ; B3' C332' =3D@<34' 8 ' 8 : 3 7 ' 9 7 53=' 8 : 3' -@28 ; ' &' 3H32D6' H ; B3' 98=' D 2=328,' : 3' =3B3283328 : ' ; <89D53' 9=' 3B32' 7 <3' CX3D89 2 ; C53K' ; ' D 2=943< ; C53' <89 2' &' 8 : 3' C@<3 ; @D< ; D6' &' <8@H ; 5' : ; 4' C332' ?3 ; > ; 24' D<9 7 92 ; 5' 32 @H : ' 8 ' ; DJ@93=D3' 92' 8 : 3' <32D : ' @=@< ; 89 2 ' = 74' 8 ' 7 ; >3' 8 : 3 7 =35B3=' 8 : 3' 8 5=' &' 8 : 3' @>3' &' C< ; 283=,' 8' B;=' 2 ; 8@< ; 5' 8 : ; 8' 8 : 39<' D @28<6 7 32' = : @54' &335' 433 56' 9249H2=@98' ? 98 : ' 8 : 3 7 $; 24' 8 : 39<' 5 8' ? ; =' 59>356' 8 ' C3' = ' : ; <4' 8 : ; 8' 98' ? ; =' C@8' < ; 89 2 ; 5' ; 24' : @ 7 ; 23' 8 ' H9B3' 8 : 3 7 ' 53 ; B3' 8 ' J@98' 8 : 3' >92H4 7 ,' @8' D 2=943<92H' 8 : ; 8' 8 : 36' : ; 4' 43=3<B34' B3<6' 955' &' 8 : 3' =8 ; 83 ' 98' ? ; =' =@<356' ?< 2H' & <' 8 : 3' <989= : ' H323< ; 5' 8 ' < 7 9=3' 8 ' 8 ; >3' 8 : 3 7 ' @243<' : 9=' = 3D9 ; 5' < 83DV 89 2 ' ; 24' 8 ' H@ ; < ; 2833' 8 : 3 7 ' ; H ; 92=8' 92X@<6' 8 ' 8 : 39<' 3<= 2=' < < 3<86,' 3' : ; 4' 2 ' B3<' 8 ' H< ; 28' 8 : 3 7 ' ; 2' ; 7 23=86' & <' 8 : 39<

$ N ' / ' ' E -o' =F

;=8' 955.4 92HS' 8: ;8' D @54' C3' H9B32' 256' C6' 8: 3' <8@H@3=3' H B3<2V 7328,' :32' 8: 3' 5;883<' <3=@734' 98=' <492;<6' &@2D89 2=' ;8' 9=C 2' 98' ?;=' ;C=@<4' 8: ;8' 98' =: @54' C3' <3B32834' C6' 8: 3' 2B3289 2'&< 7' 8;>92H' 928' D 2=943<;89 2' 8: 3' D;=3H' &' =@D:' &' 8: 3=3' @2 ;8<9 89D' 3<= 2=' ;=' 98' 79H: 8' B4=:' 8' 43;5' ?98:,' :32' 8: 3<3& <3' 03 3<.' 7;22' C< ;D: 34' 8' ;5<67 53' 8: 3' =9G83328:' ;24' =3B3283328:' ;<89D53=' 8: 3' 5;883<' =: @54' :;B3' <3&@=34' 8' ;DD3 8' 8: 37' ?98: @8' ;' <3&3<32D3' 8' 8: 3' -@28;' ;8' <8 ,' 3' 79H: 8' :;B3' H<;2834' C 8:' 8: 3' <32D:' ;24' 8: 3' <8@H@3=3' =;8355983=' &' -@2 8' ;' &<33' ;==;H3' @8' &' <8@H;5' ?98:' =@D:' &' 8: 39<' H 4=' ;=' 8: 36' D @54' D;<<6' C@8' 7 <3' 8:;2' 8: 9=' :3' D @54' 2 8' <;89 2;556' D 2D343' 2' :9=' ?2';@8: <986,

8' ?;=' & <8@2;83' 8: 3<3& <3' 8:;8' 8: 3' <;D89D;5' :;<7' 4 23' 494' 2 8' 8@<2' @8' 8' C3' B3<6' H<3;8,' 8:' 8: 3' ;5932=' ;24' 8: 3' 2;89B3=' D B3<34' C6' 8: 3=3' 8?' D5;@=3=' ?3<3' =' 3<&3D856' ;?;<3' &' 8: 39<' ?2' @2 @V 5;<986' 92' 9=C 2' 8:;8' 8: 36' ;C=D 2434' ;57 =8' ' ' :3' @5;D3' &' 8: 3' D; 98;5' :;4' H9B32' 8: 37' &;9<' ?;<292H' &' ?:;8' 8: 36' 79H: 8' 3G 3D8' & <' 2 8' 256' ?3<3' 8: 36' 8: <3;83234' ;24' 92=@5834' 92' 8: 3' =8<338=' ?:323B3<' 8: 36' ?3<3' @8' &' =9H: 8' &';' <32D:' =328<6' C@8' @2>2 ?2';24=' =834' 2' 8: 3' ?;55=' 59=8=' &': @=3=' 8' C3' =;D>34' ;24' 9249B94@;5=' 8' C3' :@2H' ;=' = 2' ;=' -@2 8A=' ;<76' =: @54' :;B3' =;9534,' :3' ?;8D:? <4=' T 3;8:' 8' 8: 3' <32D:A' ;24' T 3;8:' 8' 8: 3' 8<;98 <=A' ?3<3' 7@883<34' 3B32' @243<' 8: 3' 7@RR53=' &' 8: 3' D;22 2' ?:9D:' :;4' C332' 8<;9234' 2' ;55' 8: 3' 7;92' =8<338=' 8' >33' 4 ?2' 8: 3' 92=@<<3D89 2' & <' 8: 3' &3?' 4;6=' ?:9D:' :;4' 8' 35; =3' C3& <3' 8: 3' 37C;<>;89 2,' :3' 92B;43<=' 8: 3<3& <3' :;4' 8' 8;>3' ;?;6' ?98:' 8: 37' ;' B3<6' 5;<H3' C 46' &' D9B959;2' 43 324;28=' :3;434' C6' 8: 3' 783' 43' B9 2' ;' <32D:' * @' ?: ' ;&83<' C392H' : = 98;C56' 3283<8;9234' 92' 9=C 2' & <' 7;26' 63;<=' :;4' =: ?2' :9=' H<;898@43' C6' ;DD3 892H' 8: 3' =8' &' :3;4' &' -@2 8A=' 59D3 ;' ; ;D986' 92' ?:9D:' :3' :;4' 7@D:' 44' C@=923==' 8' 8<;2=;D8,

@8' C3=943=' <89D53=' ! / ' ;24' ! / ' &' 8: 3' 2B3289 2' 8: 3<3' ?3<3' 8: 3<' D5;@=3=' 8' ?:9D:' ;5<67 53' =: @54' 2 8' :;B3' H9B32' :9=' ;==328' ?98: @8' D 2=@5892H' 8: 3' <3 <3=328;89B3=' &' :9=' ;5593=,' 57 394;' ?;=' C392H' C5 D>;434' C6' ;' 7;==' &' <8@H@3=3' 795989;' ;24' 5B;=' ;' &3?' 4;6=' ;&83<' 8: 3' 8<3;86' :;4' C332' =9H234' ?;=' ;88;D>34' C6' ;' ;29=:' & <D3' =328' @8' &< 7' ;4;X R' C6' %;55@RR' 8: 3' ; 8;92.' %323<;5' &' =8<37;4@<;' ' <989=:' = 5493<' :;4' 638' C332' =332' ?98:92' ;' :@24<34' 7953=' &' 398: 3<' & <8<3==' \ :;8' ?;=' 8' C3' 4 23' 9&' 8: 3' H323<;5=' &' 8: 3' C3=93H92H' 8< =' <3&@=34' 8' ;C943' C6' ;2' ;H<337328' ?:9D:' 8: 36' :;4' 2 8' C332' ;=>34' 8' =9H2' ;24' ?:9D:' :;4

M#M] % % $

959 8 3B32 C332 5;94 C3& <3 8:39< <3= 3D89B3 H B3<2 7328= 3<3 98 ?;= 43&92989B356 <;89&934 b H<;B3 D<9=9= ;= ?3 =:;55 &924 ?;= D<3;834 C6 ;5<67 53A= 23H53D8 8 & <3=33 8:9= 49&&9D@586, 9= D 24@D8 ;55 8:< @H: .8:3 4;6= &23H 89;89 2 ?;= B3<6 =8<;2H3$ 2 8 256 494 :3 7;>3 2 < 3< ;8837 8 8 D 7 7@29D;83 ?98: 8:3 <8@H@3=3 ;@8: <9893= :@8 :3 ;D8@;556 53&8 :9= ?2 H B3<2 7328 @292& <734 &:9= < D33492H= & <;& <829H:8, 3 &;9534 8 =324 8:37 ;26 49= ;8D: 8 ;22 @2D3 8:3 ;<79=89D3 &@H@=8 $;24 256 & <V ?;<434 8:;8 438;9592H 8:3 2B3289 2 &@H@=8 I# 2 8:3 & @<8: 4;6 &8:3 =@DD33492H 7 28:,

;5<67 53A= 7;92 <3;= 2 & < 5388 92H 8:3 <8@H@3=3 @8 &8:3 23H 89;89 2= ?;= 8:;8 8:3 -@28; ;8 <8 : :;4 2 8 638 C332 & <7;556 <3D H29R34 ;= 8:3 53H9897;83 H B3<2 7328 &<8@H;5*, 3553=536 2 4 @C8 :;4 D 2&3<<34 ?98:8:3 9=: H9B32 :97 ;<7=;24 7@2989 2= < D9@<34 &< 7 :97 & 4 ;24 4<;@H:8 ;297;5= ;24 ;=>34 :9= ;4B9D3 C@8 8:3 <989=: 7929=8<6 :;4 2 8 638 ;D>2 ?534H34 8:3 3G9=832D3 &;26 <3H@5;< 3G3D@89B3 92 <8@H;5, :9= C392H = ;5<67 53 8: @H:8 :97=35&X@=89&934 92 ;D892H ;= 9& 8:3<3 ?3<3 2 23 92 C392H$;24 98 D;22 8 C3 432934 8:;8 8:3<3C6 :3 =;B34 :97=35& 7@D: <3=328 8< @C53 ;8 8:3 D =8 &&@8@<3 &<9D89 2, 55 8:3<3& <3 8:;8 :3 494 ?;= 8 92& <7 8:3 -798;A= ;H328 ;8 8:3 <989=: :3;4 J@;<83<= 23 928 4; @R; 8:;8 :3 ?;= 23H 89;892H ?98: -@2 8 & <8:3 3B;D@;89 2 &9=C 2 ;24 8:;8 :3 ?;= 32 8 <3D39B3 ;26 C=3<B;89 2= ?:9D: 8:3 -@28; 79H:8 7;>3, :3 =;73 ;22 @2D37328 ?;= 7;43 8 3<2;<492 <39<3 ?: :;4 <94432 B3< 8 ;7;5:;5 8 D 7 5;92 8:;8 :3 ;24 :9= ;<76 ?3<3 2 8 732V 89 234 92 8:3 ;<79=89D3 &@H@=8 $$, 8: <39<3 ;24 8:3 -@28; ?3<3 8<3;834 ;= 3<= 2= ?: =3 929 2= 98 ?;= @=3&@5 8 C8;92 2 8 ;= D 2=898@834 ;@8: <9893= ?: =3 D 2=328 8 8:3 43&92989B3 D 2B3289 2 ?;= 23D3==;<6 92 <43< 8 7;>3 98 C92492H, ;5<67 53 8<934 8 D B3< :97=35& 4@<92H 8:3 =@C=3J@328 92J@9<6 C6 7;92V 8;9292H 8:;8 8:3 2B3289 2 ?;= @<356 79598;<6 ;24 D 2D3<234 8:3 <32D:; 24 2H59=:;<793= ;5 23$ C@8 8:9= 53;D;22 8 =3<9 @=56 C3 @8 & <?;<4 92 &;D3 &<89D53= ! / ! / ;24 ! / ;55 &?:9D:;<3 D 2D3<234 ?98: < C537= &D9B95 H B3<2 7328 ?:9D: ? @54 ;<9=3 ;&83< 8:3 <32D:;<76 =: @54 :;B3 37C;<>34, ;D:

* ;5<67 53A= # / 6 $,NN,

* ;5<67 53 =;6= 8:;8 :3 =9H234 8:3 ;<79=89D3 = = 2 ;&83< 5;2492H ;24 ?98: =@D: ;2 92D 7 5383 >2 ?534H3 &8:3 =98@;89 2 92 <8@H;5 8:;8 :3 494 2 8 >2 ?8:;8 <39<3A= ;<76 ?;= ;26?:3<3 92 :9= 239H:C @<: 4 0 ,N P,

$ M‘ ‘ / ‘ ‘ ‘ W D ,‘ I#

&‘ 8 : 3=3‘ ; <89D53=‘ D53 ; <56‘ <3J@9<34‘ 8 : 3‘ < ; 89&9D ; 89 2)‘ &‘ = 7N‘ < 3<‘ <8@H@3=3‘ ; @8 : <986‘ 8 ‘ 7 ; >3‘ 98‘ B ; 594,‘ ‘ 1 8 : ‘ 8 : 3‘ 9= : ‘ &‘ <8 ‘ ; 24‘ %323<; 5‘ <39<3j ? 3<3‘ 433 56‘ ? @2434‘ C6‘ 8 : 3‘ ? ; 6‘ 92‘ ? : 9D : ‘ ; 5<6 7 53‘ 9H2 <34T8 : 39< ‘ ,=8 ; 8@=K ‘ 8 : 3‘ <35 ; 83‘ 7 <3‘ X@=856‘ 8 : ; 2‘ 8 : 3‘ = 5493< ‘ & <‘ : 3‘ : ; 4‘ 4 23‘ : 9=‘ C3=8‘ 8 ‘ ; ==9=8‘ 8 : 3‘ <989= : ‘ ; < 7 6 ‘ ? : 953‘ <39<3‘ C6‘ : 9=‘ D ; 89 @=‘ ; 24‘ 9 7 V < ; D89D ; C53‘ C3 : ; B9 @<‘ : ; 4‘ C332‘ 7 <3‘ &‘ ; ‘ : 924< ; 2D3‘ 8 : ; 2‘ ; ‘ : 35 ,‘ : 3‘ 9= : ‘ D : ; <H34‘ 8 : 3‘ <3 <3=328 ; 89B3‘ &‘ 8 : 3‘ @ <3 7 3‘ - @28 ; ‘ 92‘ ‘ 24 2‘ 8 ‘ D 7 5 ; 92‘ 8 ‘ 8 : 3‘ <989= : ‘ % B3<2 7 328‘ ; =‘ 8 ‘ 8 : 3‘ C3 : ; B9 @<‘ &‘ 8 : 39<‘ H323< ; 5= ‘ 432 @2D92H‘ 2 8‘ 256‘ 8 : 39<‘ 23H53D8‘ 8 ‘ 7 ; >3‘ 8 : 3‘ - @28 ; ‘ ; ‘ ; <86‘ 8 ‘ 8 : 3‘ 2B3289 2 ‘ C@8‘ ; 5= ‘ 8 : 3‘ 83< 7 =‘ &‘ 8 : ; 8‘ 4 D@V 7 328 ‘ ? : 9D : ‘ ? 3<3‘ =8 ; 834‘ 8 ‘ C3‘ & ; <‘ 8 ‘ & ; B @< ; C53‘ 8 ‘ - @2 8,‘ %9B92H‘ 8 ‘ ; - <6 7 53A=‘ 3G8< ; <492 ; <6‘ 435 ; 6‘ 92‘ ; <9=92H‘ 8 : 3‘ 7 929=8<6‘ &‘ 8 : 3‘ 438 ; 95=‘ &‘ 8 : 3‘ 8<3 ; 96 ‘ 8 : 3‘ 9= : A=‘ 3GD9834‘ 432@2D9 ; 89 2=‘ &‘ 8 : 3‘ ; H<33 7 328‘ : ; 4‘ D@<<32D6‘ & <‘ 23 ; <56‘ ; ‘ & <829H : 8 ‘ C3& <3‘ ; 26‘ 23‘ 92‘ 2H5 ; 24‘ >23?‘ ? : ; 8‘ 3G ; D856‘ : ; 4‘ C332‘ H< ; 2834‘ 8 ‘ - @2 8 ‘ <‘ : ?‘ &; <‘ 8 : 3‘ - @28 ; ‘ ? ; =‘ X@=89&934‘ 92‘ 98=‘ ?< ; 8 : ,

$M# / % E /1*;=

; 49=8;28 ;24 &@8953 C 7C;<4 7328 &8:3 D98;435 & ; 9 3 92 ?:9D:8:3 H;<<9= 2 & 5B;=:;4 8;>32 <3&@H3, 593 <32D:D 7V 7;24;28 %9< 4 43 B955;<=5;@H:34 8:39< 3&& <8=8 =D <2 ;24 <3&@=34 8 59=832 8 8:3 < =;5= & <;D; 98@5;89 2 ?:9D:8:36 >3 8 <3==92H @ 2 :97, 2 = 983 & <43<= &< 7 8:3 -@28; & 3B9553 C94492H :97 ;C;24 2 8:3 =93H3 ;24 7 ;<D:& < ;4<94 ?98: :9= ;<76 %;5&@RR 3<=9=834 92 :9= <949D@5 @= < D33492H= 8955 23;<56 8:3 324 & 3 837C3<, 8 ?;= 256 ?:32 ;5<67 53 7 B34 @ 8 8:3 239H:C @<: 4 &9<=8 8:3 $#8: 3H97328 ;24 8:32 8? ?: 53 C<9H;43= @243< 9< - :2 3 8:;8 8:3 ; 8;92.%323<;5 4<3? &&:9= 732 ;24 <389<34 928 ;29=:83<<98 <6 W 3 837C3<$], :32 %9< 4 ;24 :9= H;<<9= 2 ?:9D:?;= 7;9256 D 7 =34 &8:3 L8: ?9== 3H97328 ?3<3 ;C53 8 7;<D:8 9=C 2 @243< <989=:3=D <8 ;24 37C;<>& < <;2D3, :36 494 2 8 =;95 8955 D8 C3<" = 5 2H :;4 %;55@RR A= &<3;>= 435;634 8:37,

, :3 H;<<9= 2 & 573 94;43 ;<834 ;C @8 8:3 =;73 8973- 8:36 :;4 7;928;9234 8:37=35B3= ?98: @8 49&&9D@586 ;H;92=8 8:3 <8@H@3=3 92=@<H328= C@8 4@56 P W35434 @ 8:3 5;D3 : 8:3 ;<<9B;5 & <989=: 8< =, :36 ?3<3 7;<D:34 4 ?2 8 <8 @243< ;2 3=D <8 & $## 732 ;& <D3 = ?3;> 8:;8 98 23;<56 534 8 ; 49=;=83<, < 8:3 7 C & <8 @243<8:3 <383G8 8:;8 D:@<D: 5;83 ;24 8:3< @C59D 5@243<?;= C392H D;<<934 &&C6 8:3 <32D: &355.@ :8:37 ;= 8:36 ?3<3 37C;<>92H ;24 23;<56 7;43 ;2 324 &8:37, 8 <3J@9<34 ;55 8:3 3G3<89 2= &8:3 3=D <8 8:3 9=: & <8 ;24 9< C3<8 95= 2 ?: ?;= 8:32 2 8:3 = 8 <H;29R92H :9= ?355.>2 ?2 T @=98;29;2 3H9 2A 8 <3B328 8:3 @5;D3 &< 2X C ;<492H 8:3 8<;2= <8= ;24 =5;692H 8:3 ?:53 &8:3 <32D: C;88;59 2, :3 C;HH;H3 &8:3 43 ;X<892H 8< = ?;= =39R34 ;24 5@243<34 ;24 8:36 C;<356 =@DD33434 92 3=D; 92H ?98:8:39< 59B3= 3;2?:953 5 2H C3& <3 8:3 H;<<9= 2= &5B;=;24 573 94;:;4 C332 C< @H:8 4 ?2 8 8:3 D ;=8 -@2 8 ;24 8:3 7;92 C 46 &:9= ;<76 :;4 43 ;<834, :3 D 7 7;243<.92.D:93& :97=35&::;4 =;9534 2 3 837C3< I 8:3 &9<=8 49B9=9 2 &:9= ;<76 2 8:3 &9&83328: 8:3 <3=8 C38?332 8:;8 4;6 ;24 8:3 8:9<8938:, :3 5;=8 ?33>= &8:3 <32D: DD@ ;89 2 &9=C 2 :;4 C332 7 =8 @2D 7& <8;C53 & <;55 ;<893= D 2D3<234, :3 @5;D3 " =338:92H ?98: 49=D 28328

* 6 9B, IN IN$ $;93< 9, $LN $L , ;93<=@ <3==3=8:3 ;<88;>32 92 =;B92H 8:3 <32D: C6 8:3 9=: ;24 C6 95= 2 8 2398:3< &?: 7 ?3<3 :9= &33592H= &<93245 6, 6 ;D>2 ?534H3= 8:3 =3<B9D3= &C 8:, :3<3 9= ;H 4 ;DD @28 &8:3 ?: 53 C6 95= 2 92 :9= ; 3<= ;8 8:3 3D <4 & D3,

*9==;==92;892H 9= 5;834 = 5493<= ;24 8:<3;83292H ;H323<;5 <9=92H, :3 <32D: ?3<3 @243< ;<7= 4;6 ;24 29H:8 ?98: D;22 2 8<;9234 4 ?2 3B396 =8<338 ;24 =J@;<3, 2 @5;< &&9D3<= =@D: ;= 9= 2 D @54 2 8 =89< &< 7 8:39< J@;<83<= ?;8: @8 ;5;<H3 3=D <8, @5532 ;8 8:39< 43&3;8 ;24 =8955 7 <3 ;2H<6 ;8 :;B92H 8 ;C;24 2 8:3 :3; = &5@243< B:9D: 8:36 :;4 ;7;==34 8:3 <32D: ?3<3 92 ; 7 =8 49= C59H92H 7 4 92 8:39< 43;C2H= ?98: 8:3 <8@H@3=3 ;24 92 ;53== 43H<33 ?98: 8:3 2H59=:, :3 7;92 = @<D3 &9<<98;89 2 ?;=8:3B3<6 23D3==;<6 73;=@<3= ?:9D: :;4 8 C3 8;>32 & <=3;<D:92H 8:3C;HH;H3 &8:3 43 ;<892H ;<76, D 779==9 2 :;4 C332 & <734 D 2=9=892H &03553<7;22 2 8:3 23 =943 ;24 %323<;5 3<3=& <4 ;24 j <4 <C6 2 8:3 8:3<8 =38853 92 ;55 49= @834 D;=3= ?:;8 ?;= 79598;<6 3J@9 7328 ;24 53H989 7;83 3<= 2;5 <3<86 ;24 ?:;8 ?;= 2 8, :3 2H59=:D 779==9 23<= 49=D B3<34 8:3 7 =8 ;=8 @2492H: ;<4= &79=D355;23 @= H 4= ;7 2H8:3C;H= ;24 C G3= &8:3 92B;43<= * :3 D 24@D8 &7 =8 &8:3 <32D: &&9D3<= &< 7 8:3 D 77;243<.92.D:93& 4 ?2?;<4= ?;= 7 =8 49=H<;D3&@5, 3&3?3G;7 53= 7;6 =@&&9D3 -@2 8 C6 8:3 8?3286.&9<=8 ;<89D53 &8:3 2B3289 2 :;4 C332 H<;2834 53;B3 8 =324 ;=92H53 &&9D3< 8 <;2D3 ?98: 23?= & < 8:3 7 3< <, :9= &&9D3< :9= ;943.43.* D;7 ;H<;B3 8 >? 98: :97 & < :9= H323<;5 <9B;83 < &98 8:3 7 =8B;5@;C53 =38 &C >= 92 8:3 6;5 9C<;<6 & 9=C 2 & @<8332 B 5@73= &;7;2@=D<9 8 9C53 &8:3 &9&83328: D328@<6 9 @=8<;834 ?98: 7929;8@<3= C6 8:3 C3=8 5 <328923 ;<89=8= ; H9&8 8 092H <;;2@3 &< 7 23 &8:3 32;9==;2D3 3=, -@2 8A= ?94 ?;&83<V ?;<4= 54 98 8 8:3 <32D:H B3<2 7328 & <M ###&9.;2D=, ;H<;B3 :;B92H =8;<834 C3& <3 8:3 D 779==9 23<= :;4 C3H@2 8 ? <> H 8 && ?98: :9= C G3= @2=3;<D:34, @8 8:3< 9283<3=892H 983 7= ?3<3 49=D B3<34 92 8:3 C;HH;H3 &8:3 @>3 & C<;283= 23 ?;= d ###? <8: &9249H 92 &9&86.8:<33 5;<H3 D:3=8= ;2 8:3< ?;= ;J@;28986 &B;5@;C53 = 3D97 32= &2;8@<;5 :9=8 <6 &< 7 8:3 @C59D 7@=3@7, %323<;5 35;C <43 ?;= & @24 8 C3 92 ==3==9 2 &;5;<H3 D 553D89 2 &=;D<34 9D8@<3= ?:9D: :;4 ;4 <234 9=C 2 D:@<D:3=, D;883<34 8:< @H: 8:3 C;HH;H3 &7;26 &&9D3<= ?;= ;J@;28986 &D:@<D: 5;83 ;;<32856 ;<8 &8:3 < 3<86 =39R34

; 93<?98: :9= D@=8 7;<6 83243<23== & < <32D: =@=D3 89C959893= :;= 256 B3<6 H323<;5 ;55@=9 2= 8 8:3=3 49=H<;D3&@5 3D@5;89 2=, 6 438;95 ;<3 7;9256 &< 7 :94C;@58 09B, "M.$###P ?: &<;2>56 D 2&3==3= 3B3<68:92H ;24 H9B3= 7;26 =D;24;5 @= ;<89D@5;<=, 3 ?;=;= ; 53 2 ?< 83*)2 8 4359D;83 92 7 236 7;883<=,*

M / % E /1*

8 ;6 8:3 ?;< D 28<9C@89 2= ?:9D: ; 53 2 :;4 9 7 =34 2 <8@H;5 C@8 98 :;4 92 = 7 3 7 6=83<9 @= ?;6 ;==34 &< 7 @C59D 928 <9B;83 ==3==9 2 2 8:3 7 9598;<6 D:3=8 ?3<3 H 54 C;<= 8 8:3 B;5@3 & ### ### &<;2D= ?:9D: :;4 D 7 3 &< 7 8:3 =;7 3 = @<D3 C@8 8:3 ;6 7 ;=83<.H323<;5 8<934 8 H38 8:3 7 @8 &8:3 D @28<6 ?98: @8 ;692H 8:3 2@7 3< @= ;DD @28= ?34 C6 :9= 43 ;<8V 7 328 8 <9B;83 9249B94@;5= 92 9=C 2, :36 ?3<3 2 8 49=D:;<H34 89 8:9= 9249B94@;5 23 : 2235593< :;4 C332 @8 @243< ;<<3=8 ;24 8:<3;83234 ?98: 4383289 2 ;&83< 8:3 <3=8 &8:3 ;<76 =: @54 :;B3 =;9534 2 8:3< 7 =8 =D;24;5 @= < D33492H 49=D B3<34 C6 8:3 D 7 79==9 23<= ?;= 8:;8 -@2 8 ;&83< 8:3 =9H2;8@<3 &8:3 2B32V 89 2 :;4 C< >32 32 8:3 3 =98 @C59D 8:3 D:3=8 &8:3 @ <3 7 3 @<8 & 9=C 2 ?:9D: D 28;9234 7 236= ?: =3 <9H:8&@5 ?23<=:9 ?;= 92 49= @83 C38?,332 <9B;83 5989H;28=, 3 8 >&< 7 98 D 92 8 8:3 B;5@3 & N*$ ### ?:9D: ?;= 256 ?<@2H @8 &:97 ?98: 8:3 H<3;83=8 49&&9D@586, B32 ;&83< ; B;=8 ; 7 @28 :;4 C332 <3D B3<34 8:3 <32D: =;9534 ?98: ; 7 9598;<6 D:3=8 D 28;9292H ;6 & < 8:<33 7 28:= ;:3;4 & < 8:3 ?: 53 ;<76 8: @H: 8:36 :;4 3283<34 <8@H;5 322953==, <;H323<;5 9D8@<3 &8:39<C3:;B9 @< 98 7 ;6 =@&&9D3 8 J@ 83 8:3 <3 <8 &8:3 <989=: D 7 79==9 23<=, T :3 D 24@D8 &8:3 <32D: :;= C332 7 ;<>34 C6 8:3 7 =8 =:;73&@5 49=<3H;<4 &: 2 @<;24 < C986 @C59D56 3692D92H 8:39< 9283289 2 J &43 ;<892H ?98: 8:39< C 86 ;24 53;B92H ;D>2 ?534H34 43C8= @2 ;94, 92;556 8:36 256 ;94 ?:;8 8:36 ?3<3 C59H34 8 , 49=V H <H3,,,, 2 7 924&@5 &3B3<6 893 &: 2 @< <X@=89D3 8C3 <32D: ;<76 :;= 8;>32 ;?;6 ;D 2=943<;C53 =@7\92 98= 7 9598;<6 D:3=8 =8955 53;B92H 98= 43C8= @2 ;94 8 ;B3<6 5;<H3 ;7 @28

8 ?;= 2 ? 243< 8:;8 8:3 <3=3287328 &8:3 <8@H@3=3 ?;= = H<3;8 8:;8 8:3 5;=8 <32D: ? : 37C;<>34 D @54 256 H38 ;?;6 @243< 8:3 < 83D89 2 & <989=:C;6 238= ;24 8:;8 7 ;26 &8: =3 ?: =8<;HH534 <592H3<34 8 5 2H 92 <37 83 D <23<= &8:3 8 ?2 5 =8 8:39< 59B3=, :3 ?954 &@<6 &8:3 9=C 2 7 C =@< <9=34 8:3 <989=: &&9D3<= ?: ?3<3 D:;<H34 ?98: 8:3 37C;<>;89 2 K 8:36

* &, :9 ;@58 ; 93< ;24 = 73 D@<9 @= 438;95= H9B32 92 8:3 / 6 & < M#M ?98: < C6 ;24 3<3=& <4= 3 <8,

* <X <3B9 @= ;D8= ;24 5;2= &8:9= =:;7353== 3<= 2 =33 :9 ;@58 9B, N .I,

* 3 <8 &%323<;5 3<3=& <4 ;24 <4 < C6 8 9< 3? ;5<67 53 ;&83< 8:3 3B;D@;89 2,

* < 8:3 8@7@58= ;24 7@<43= ;8 8:3 37C;<>;89 25;33 5, 3=593A= H $, NN. N ;24 5, 95>93A= o 6 1& $, N,

>23?598853 &?:;8:;4C332H92H 2928:3D; 98;5&<8:35;=8 2923.7 28:)=;24D@54 2 8@243<=8;248:37;4<;H3 49= 5;634;H;92=88:3H;<<9= 2,

@8&92;5568:35;=8 <32D:C;6 2388 49=; 3;<34&< 78:3=8<338= &9=C 2;24838:3 @5;D3?98:2 CX3D853&&8 2?:9D:8B3:8 8:39<&@<6 8@<2348 955@ 7 92;89 2=&3;=8=;24838:3D:9549=:4359H:8= &&9<3? <>=,5936494 2 8=:?8:37=35B3=@2H<;83&@5 8 8:3;&76 &59C3<;89 25 ;55 8:3 <989=:&&9D3<=?:::B3 43=D<9C34 8:3&9<=8?33>=;&83<8:3 3B;D@;89 2 &9=C 2C3;<?9823==8 8:3 328:@=9;=7?98:?:9D:8:36?3<3<3D39B34;24838:3H 4&33592H 49= 5;634C6 8:39<;5593= 8?;= 256922 8:3 :9H:3=8 <8@H@3=3 J@;<83<=8:;8 49==;89=&;D89 2?;=<;7 ;28K 8:3 9=: &<8 %323<;5 <39<3;24838:3 2839< <:;4;55=@&&3<34?:;8 8:36 D 2=943<34;2 92=@58?:32 8:39< D 2=328 /,.2 8;=>34 8 8:3 2B3289 2 &928<;;24 7;43 2 =3D<38 &8:39<;2H3<;H;92=8 ;596 7 53,@8 984 3=2 8=337 8:;8 8:39<&33592H=;&&3D834;26 5;<H3=3D89 2 &8:3 3 53,

:3 <32D:;<76 37C;<>34& <98=2;89B3=95=8955$ L =8< 2H, 8:;4 3283<34 <8@H;5 92 8:3 <3B9 @= B37C3<?98:;=8<32H8: &23;<56$ ### ;24:F94<3D39B34 4@<92H8:3= <92H &M#M=73 L ##<3D<@98=K 92 8:3 7 28: &;6 C3& <3:=8959893=C3H;2 98= &@55& <D3:;4C332$N N"L &8:9=8 8;5$# #"## ?3<3@243<;<7= ;8:3 7 7328 8:;8:3 2B3289 2?;=9H234 I $$?3<3 92 : = 98;5 =9D><?2 @2434K " N?3<3 <9= 23<=92 8:3:;24= &8:3 2H59=: <8:3 <8@H@3=3, :3<3<37;92 8:3<3& <3= 73 L N## 732 8 C3;DD @2834& <K 8:3=3: ?3B3<?3<3 2 8;55 43;4, <3 8:;2 ##:;4 43=3<834;24 8;>32=3<B9D3?98:8:3 <989=:C3& <3 8:3 37C;<>;89 2K 8:36 D;73;57 =8?98: @8 3GD3 89 2&< 78:3<;2>= &8:3 8:<33& <39H2C;88;59 2=?:9D:;4C332=3<B92H?98:-@2 8 8:3 =8 ;2 B3<9;2=;24 8:3 $24;24 L8: ?9==`, =)8:3 8 8;5 & <D3 &8:3=3 D<=:;4 C332 256 $ LM 98 9=D53;<8:;8 ;C @8 23 7;2 92 &9B3 43=3<834, :9=?;=2;8@<;5 92 8:3 D;=3 &8:3 %3<7;2=?:?3<3 54=@CX3D8= &%3 <H3 ;24 7 =8)@2?9559 2H <3D<@98=8 8:3 <32D:;<76 C@8:3 3J@;556?355.7;<>34 43&3D89 2

++ 4 .++8+)& # ' ' $ //S A 4 %49%+/SA 4 +&4%+//

D $1 && ! &L$8%Q 66%37,+&3%8+)6 , (*Q F()2 0%;1(74.

V (/%+,%QS A *8 + 0(8 (4,+(2 0(2 --(&%). .+ .0+/, -4%8%.* 6.0+Q)2 5%&&.2+&+,. 0+S.0 5%&&50 0(2 6 ,'+2 .0+3(,,%&)6 48(&&0 5+2+=(-.4* .0+&('+.+)2+)-*

L ‘ : M‘ ‘ / ‘ % ‘ !$%& ‘(

&‘8:3‘ ?9=“9=“B3<6‘2 8;C53,‘ =8‘ &‘8:3‘5;883<‘?3<3‘3259=834‘& <‘8:3‘ 8:‘ ;88;59 2‘ &‘8:3‘N#8:‘ 9&53=‘?:953‘8:3‘ ;2 B3<9;2=*‘X 9234‘8:39<‘ D @28<6732‘92‘8:3‘<;2>=“ &‘8:3‘092HA“ %3<7;2‘ 3H9 2‘ :3‘<3;5‘ 43&9D98‘8:32‘92‘-@2 8A“ ;<76‘?;“ ;C @8‘L ###‘ 732K 8:9=“<3 <3=328=“ 8:3‘8 8;5‘5 ==“ &‘59&3‘C6‘8:3‘&9H:8=“ &‘ 59);‘;24‘/9793< ‘C6‘8:3‘ 2@73< @=“D 7C;8=“?98:‘8:3‘ <8@H@3=3‘C6‘8:3‘=8<;HH53<“D@8‘ &&‘ 4@<92H‘8:3‘& <D34‘7;<D:3=“ &‘-@56‘;24‘ @H@=8‘;24‘C6‘8:3‘<492;<6‘ 7 <8;5986‘92‘: = 98;5,‘ 8‘ 7@=8‘C3‘D 2=943<34‘ 2‘8:3‘?: 53‘;‘B3<6‘ 7 43<;83‘D;=@;586‘59=8K -@2 8A“D < =‘?:32‘98‘<3.3283<34‘ ;92‘8 ‘ =3<B3‘ 2D3‘7 <3‘@243<‘8:3‘ 7 3< <‘?;“ =89 ‘$$ ###‘ =8< 2H,‘ 8‘ B @54‘:;B3‘C332‘3B32‘;‘8<9&53‘:9H:3<‘92‘2@7C3<“9&‘;‘8<;2= <8‘D;<<6V 92H‘8?‘D 7 ;293“ &‘8:3‘MN8:‘ 3H97328‘:;4‘2 8‘& @243<34‘;8‘=3;‘ ?98:‘8:3‘5 ==A &‘3B3<6‘7;2‘ 2‘C ;<4,

8‘9“ 23D3==;<6‘8 ‘H9B3‘= 73‘;DD @28‘ &‘8:3‘&;83‘ &‘ 929;B92A“ @==9;2‘ =J@;4< 2‘C3& <3‘ 49=79==92H‘8:3‘8 9D‘ &‘8:3‘3B;D@;89 2‘ &‘ <8@H;5,‘ :3‘;479<;5‘;“ =‘?3‘:;B3‘;5<3;46‘:;4‘ DD;=9 2‘8 ‘ =8;83‘:;4‘=83;4&;=856‘<3&@=34‘8 ‘8:<?‘92‘ :9“5 8‘?98:‘-@2 8‘ ;24‘ 8 ‘X 92‘92‘8:3‘ 2B3289 2‘ &‘ 928<;,‘ 3‘ <3&3<<34‘8 ‘7;>3‘;2‘ ;H<337328‘ &‘:9“ ?2‘?98:‘ 9<‘ :;<53“ 88 2,‘ 8‘?;“ =‘;‘=97 53‘ 4 D@7328‘ &‘8?‘ ;<89D53=S‘ 8:3‘&9<=8‘ < B9434‘8:;8‘8:3‘2923‘ =;95‘ &‘8:3‘5923‘;24‘ 23‘&<9H;83‘?:9D:‘& <734‘8:3‘ @==9;2‘&5338‘=: @54‘ C3‘H9B32‘@ ‘=328‘8 ‘ 2H5;24‘;24‘T:354‘;“ ;‘43 =98K C6‘:9“ <98;229D‘7;X3=86‘8 ‘C3‘<3=8 <34‘?98:92‘=9G‘7 28:“ &‘;‘ 3;D3‘ C38?332‘%<3;8‘ <98;92‘;24‘ @==9;,‘ :3‘=3D 24‘?;“8 ‘8:3‘3&&3D8‘ 8:;8‘929;B92‘:9“ &5 D3<“;24‘D<3?=‘=: @54‘C3‘ 328‘C;D>‘8 ‘ @==9;‘ 2‘ 2H59=:‘=:9 =“?98: @8‘C392H‘92‘;26‘?;6‘D 2=943<34‘ <9= 23<“ &‘ ?;<‘ <‘43C;<<34‘&< 7‘&@<8:3<‘=3<B9D3,

479<;5‘ 88 2‘98‘9“D53;<‘<3H;<434‘8:3‘=:9 =“;“97 <8;28‘;24‘ 8:3‘D<3?“;“? <8:6‘ &‘=7;55‘;88328 2,‘ 8‘?;“< &98;C53‘8 ‘%<3;8‘ <98;92‘ 8 ‘ >33 ‘ 4 ?2‘ 8:3‘ 2@7C3<‘ &‘ B3==35“ 92‘8:3‘ ?3<‘ &‘ ; 53 2‘8: @H:‘2 ?‘8:;8‘8:3‘ ;29=:‘&5338‘?;“D; 8@<34‘;24‘8:3‘ ;29=:‘ &5338‘ 8<;2=&3<<34‘8 ‘8:3‘ 8:3<‘=943‘ &‘8:3‘C;5;2D3‘8:3<N‘ D @54‘C3‘2 ‘5 2H3<‘;26‘97 7349;83‘4;2H3<‘ &‘8:3‘ <32D:‘8;>92H‘8:3‘ &&32=9B3‘;8‘=3;‘ :3‘3;=6‘83<7“ &‘<353;“3‘H<;2834‘8 ‘8:3‘!

&‘8:3‘ @==9;2‘=J@;4< 2‘=@HH3=8‘8:;8‘8:3‘ <989=:‘;479<;5‘:;4‘ 4383<7923 4‘8 ‘<3?;<4‘98=“D 7 7;243<‘& <‘:9“ 3<=9=8328‘<3&@=;5‘8 ‘ :35‘-@2 8,‘ 8‘;57 =8‘; 3;<=“8:;8‘ 88 2‘5 >34‘@ 2‘ 929;B92

L‘ ‘.(14+“%)‘.0+“ # ‘ & ‘ +‘ ‘1& ‘ ‘ 6‘&0 5& .0(.‘.0+“ +3%)‘,+-+%8+2“ ‘,+-,7%.&6, ‘‘.0%& & 7,-+‘ 0+“ W .0‘1.(%)+2“ ;‘7@D:‘4(,3+,‘)7‘1+,‘0(8%)3‘&.%44‘ 8+,‘Q ‘ 5%&& 5%.0‘.0+‘‘%)‘ “‘

MM ; =3D<38 &<9324 ; 24 8<3 ; 834 : 9 7 ; DD <492H56, 9543< 83< 7 = D @54 : ; <456 : ; B3 C332 43B9=34 & < 8 : 3 7 7 328 8 : ; 8 8 : 3 : ; <C @<. & <8= & 9=C 2 ?3<3 =@<<3243<34 8 8 : 3 <989=: 8 : 3 @==9; 2= 7 @=8 CB9 @=56 C3 7 ; 43 <9= 23<= =92D3 8 : 36 D @54 2 8 H38 @8 & 8 : 3 <9B3<, 8 9= < C ; C53 8 : ; 8 8 : 3 8 ? ; 4 7 9<; 5= 8 : < @H : 56 @243<=8 4 3 ; D : 8 : 3<h= 7 924 ; 24 8 : ; 8 8 : 3 @==9; 2 ? ; = @249=H@9=3456 53 ; =34 ; 8 8 : 3 49= ; =83< & : 9= 4383=834 <32D : ; 5593=,

: 3 7 =8 <3==92H 23D3==986 92 <8@H ; 5 ; &83<)8 : 3 <32D : : ; 4 43 ; <834 ? ; = 8 : 3 D 2=8<@D89 2 & ; 23? 2 ; 89 2 ; 5 H B ? 2 7 328 & <98 ? ; = D53 ; < 8 : ; 8 8 : 3 @ <3 7 3 - @28 ; ; 8 <8 <3 =32834 92 <3 ; 5986 256 8 : 3 2 <8 : 3<2 < B92D3= & 8 : 3 <3 ; 5 7 ; 24 D @54 2 8 C3 ; DD3 834 ; = 98= <3=94328 8 : 3 9= : =@HH3=834 ; = ; 3< 7 ; 2328 ; 24 53H989 7 ; 83 3G3D@89B3 & < 8 : 3 ? : 53 >92H4 7 , 2=898@89 2 ; 556 = 3 ; >92H 9& 23 7 ; 6@=3 =@D : ; : <; =3 ? : 32 43 ; 592H ? 98 : ; D @28<6 59>3 <8@H ; 5 8 : 3 256 C 46 ? : 9D : ==3==34 ; D53 ; < 89853 & ; @V 8 : <986 ? ; = 8 : 3 @2D95 & 3H32D6 ? : 9D : <92D3 - : 2 : ; 4 2 7 9V 2 ; 834 2923 7 28 : = C3& <3 2 8 : 3 3B3 & : 9= 43 ; <8@<3 & < <; R95, @8 8 : 9= D @2D95 : ; 4 5 2H D3 ; =34 8 ; D8 98= 7 3 7 C3<= ? 3<3 49=V 3<=34 =3B3<; 5 : ; 4 D 7 < 7 9=34 8 : 3 7 =35B3= C6 =@C 7 98892H 8 8 : 3 <32D : ; 24 8 ; >92H &&9D3 @243< - @2 8 ; 24 98= D 7 =989 2 H ; B3 2 < 7 9=3 & B9H < @= ; D89 2 & < 8 : 3 &@8@<3, & ; D : 9D3 7 @=8 C3 7 ; 43 C38 ? 332 8 : 3 - @28 ; ; 8 <8 ? : 9D : ? ; = ; D89B3 ; 24 ; 8<9 89D 8 : @H : 3< : ; = 8 7 @D : H9B32 @ 8 =35&. ; ==3<89 2 ; 24 928<9H@3 ; 24 8 : 3 3&&383 54 3H32D6 8 : 3<3 D @54 C3 2 4 @C8 8 : ; 8 8 : 3 & < 7 3< ==3==34 7 <3 D5 ; 9 7 = 8 8 : 3 D 2&9432D3 & 8 : 3 <8@H@3=3 2 ; 89 2 ; 24 98= 2H59= : ; 5593=, @8 98 ? ; = 2 8 23D3==; <6 8 ; 4 8 398 : 3< ; 583<2 ; 89B3 92 &@55K 3553=536 ? : : ; 4 ; 5<3 ; 46 H 8 ; & 9< 7 H<9 @ 2 8 : 3 @85923= & <8@H@3=3 5989D= ; 4B9=34 ; : 6 7 53 8 92B983 8 : 3 54 3H32D6 ? 98 : 8 : 3 3GD3 89 2 & 8 : =3 7 3 7 C3<= ? : : ; 4 D 7 < 7 9=34 8 : 3 7 =35B3= ? 98 : 8 : 3 <32D : 8 <3; ==3 7 C53 ; 24 8 C<92H <3==@<3 @ 2 8 : 3 7 8 D . 8 8 8 : 3 B ; D ; 28 5 ; D3= 8 : 3 9= : & <8 ; 24 8 : 3 8 : 3< < 7 92328 7 3 7 C3<= & 8 : 3 - @28 ; ; : 9= < =; 5 ? @54 : ; B3 =3D@<34 53H ; 5986 & & < 7 0=92D3 8 : 54 3H32D6 ? @54 8 : 3 <389D ; 556 : ; B3 D 2892@34 8 3G9=8P ? : 953 928< V 4@D92H 23? ; 24 B9H < @= 353 7 328= & @24 @C834 ; 8<9 89= 7 928 8 : 3 C 46 @8 ; 5<6 7 53 <3&3<<34 8 <392=8 ; 83 C6 ; < D5 ; V 7 ; 89 2 & : 9= ? 2 8 : =3 7 3 7 C3<= & 8 : 3 3H32D6 ? : : ; 4 23B3<

 +44+&4+* . , 2 (&.4+,+(30 +/ . '"; & $ %8 N F) &/%.+ 6 X6(/%+,<& 2+)7)-%(.%) 6 .0+ K%&0 / +44+&4+* 1+(,& 3 2 5%.)+&& %) 0%& 6(8 7, + 6 %8 S

$MN / % E /1*;A

?;B3<34 92 8:39< ;553H9;2D3 8 <92D3 - :2 W 3 8, M], 3 D;5534 @ 2 ;55 @C59D C 493=;24 &&9D9;5=92 8:3 <3;57 8 C36 8:9=<3D 2V =898@834 3G3D@89B3, 3<3 ?;= ;2 @24 @C834 79=8;>35 98 ?;= ? @2492H 8 <8@H@3=3 <943 8 =33 8:3 D328<;5 H B3<292H C 46 &8:3 >92H4 7 D<3;834 C6 8:3 349D8 &;2 2H59=: H323<;5K ;5< 72 53 =: @54 =@<356 :;B3 ;55 ?34 8:3 3H328=8 ;<9=3 8:3,2;89 2 C6;< D5;7;89 2 &8:39< ?2 8:;8 8:36 :;4 <3=@734 8:39< &<73< &97D89 2=, ?3B3< 8:36 &355 92 ?98: 3553=536A= 5;2= = &;< ;= 8 D . 8 8:3 9=: &<8 ;= ;D 553;H@3 8: @H: <3&@=92H ;26 5;D3= 8 8:3 <3=8 &:9= -@28;, :3 ?: 53 C 46 2 ? D 2=9=834 &8:<33 <9H92;5 737C3<= 8:3 243 43 ;=8< ;<97 0 8:3<?9=3 >2 ?2 ;= 8:3 2839< <P ;2D9=D ;@2:;;24 !;B93<43A <2:; &8? 3<= 2= D: =32 &< 7 ;59=8 &==9C53 =@C=898@83= ?:9D: 8:3 <92D3. 3H328 :=94 53&8 C3:924 - ;7 43 324 2 ;;24 %323<;5 9H@35 <X;= @892: ;24 &8? D . 834 737C3<= 8:3 9=: ;24 8:3 243 4;= 92;= ;2 54 2 C537;2 ?: :;4 =: ?2 ;B3<6 4383<79234 = 9<98 92 <3=9=892H -@2 8 4@<92H 8:3 4;6= &:9= ?3<,

2 8:3 <3D 2=898@89 2 &8:3 3H32D6 8:3 -@28;&<8 ?98: 7 <3 =35&.4329;5 8:;2 :;4 C332 3G 3D834 49== 5B34 98=35&, :3 792 <X@28;=92 8:3 5H;<B3 8:3 537 83X ;24 8:3 <;=. =. 283= '& 55 ?34 98= 3G;7 53 ;24 <8@H;5 ? 2D3 7 <3 92 ==3==9 2 &;=92H53 3G3D@89B3 ?: =3 ;@8: <986 ?;= &<3356 <3D H29R34 8:< @H:V @8 8:3 >92H4 7, 2& <8@2;8356 98 8@<234 @8 8 C3 =5 ?89794 ;24 49B9434 928 D59J@3=?:9D: ?3<3;5?;6= ;8B;<9;2D3?98:3;D: 8:3<,

3 :;B3 ;5<3;46 =332 8:;8 ?92H 8 B;<9 @= D;@=3= &435>6 & ?:9D: %; @RR A= <3 =83< @= < D33492H= ;8 5B;= ?3<3 8:3 7 =8 < 792328 8:3 5;=8 <32D: 8< = 494 2 8 J@98 <8@H;5 8955 3 V 837C3<:;4 3G 9<34 ;24 8:;8 -@2 8 :97=35& ;24 8:3 7;92 C 46 &:9= ;<76:;4 256 C3H@2 8 53;B3 2 8:3 &9&83328: &8:;8 7 28:, 8 ? @54 :;B3 C332 97 ==9C53 & < ;5<67 53 8 ;4B;2D3 928 ;92 8955 8:3 <32D: :;4 53&8 9=C 2 : ?3B3< @<H32856 :9= <3=32D3 79H:8 :;B3 :332 <3J@9<34, @8 98 ? @54 3<:; = :;B3 < B34 &3;=9C53 8 @=:& <?;<4 8 ?;<4= 8:3 ;29=:& < 2893< ; D 2=943<;C53 ;<8 &:9= ;<76 ;24 8 7;>3 <3 ;<;89 2= & <8:3 7 B37328 &8:3 ?: 53 8 ?;<4= ;4<94 < ;5;2 72D; ;= = 2 ;= 8:3 3B;D@;89 2 =: @54 C3 D 7 5383, ;5<67 53 : ?3B3< ?;= ; kM9=@<356 ;= 8:J H323<;5= &8:3 54 4;6= C3& <3 8:3 3B 5@89 2;<6 ;<, 3 >3 8 :9= 8< = D;28 234 ;C @8 9=C 2 256 @=:92H & <?;<4 8? C<9H;43= 8 ?;<4= 5B;= 92 <43< 8 C<92H %; @RR 8

<3;= 2 ;24 49= ;8D:92H 8:3N8: 3H97328 ;= ;H;<<9= 2 8 57394;, 3 =337= 8 :;B3 C332 J@983 ;= 7@D: 9283<3=834 92 8:3 ;47929=8<;V 89 2 &<8@H;5 ;= 92 8:3 &@<8:3< <=3D@89 2 &8:3 ?;< 92 ;92, 3 &924 :97 7@D: C@=934 92 8:3 <3D 2=8<@D89 2 &8:3 <8@H@3=3 H B3<27328 ;24 ;<76 <3B93?92H ;24 <3;<792H 8:3 ;29=: 49B9=9 2 &;<;&&;C3& <3=:9 92H 98 &&8 ;8;529;W 3 8,$$] ;24 = 324V 92H ;H<3;8 43;5 &89733 B3<8:3 <349=8<9C@89 2 928 C<9H;43= ;24 49B9=9 2= &:9= ;<76 ?:9D: ;4 2 ?=?35534 8 7738:92H 59>3 I ### 732 C6 8:3 ;<<9B;5 &<3A= & <D3 ;24 D3<8;92 <3H97328= &< 7 ;439<; %9C<;58;<;24 2H5;24, 3 ?;= ;5= 32H;H34 92 3243;B @<= 8 <H;29R3 ;< 3< D 7 79==;<9;8 & < 8:9= 5;<H3 C 46 &732 ;;:;<4 8;=> & < 3B3<6 C<9H;43 ;<<9B34 92 8:3 =;73 =8;83 &43=898@89 2 ;= 8 73;2= &8<;2= <8 ;= :;4 8: =3 ?:9D: 5;2434 ?98: 3553=536 ;8 243H ;6 2 8:3 &9<=8 &@H@=8, @8 92 ;55 :9= ;D89 2= 8:3<3 ?;= 3B94328 ;? ;28 &B9H @< ;24 &@< =3&@5 <3= @<D3 ?:9D: ?;= B3<6 49=8<3==92H 8 8: =3 &:9= =@C <492;83= ?: ?3<3 ;2G9 @= & < ;<;94 ;24 43D9=9B3 ;4B;2D3 8 ?;<4= 8:3 7;92 8:3;8<3 &?;< 92 ;92,

23 &358 8:9= 7 <3D53;<56 8:;2 3553=536 ?: =3B3?= ;= 8 :9= D 7 7;243<A=∫D 7 3832D3 :;4 23B3< D:;2H34 =92D3 8:;8 : @< 2 8:3 7 <292H &@H@=8 $$?:32 ;5<6 7 53 :;4 <3&@=34 8 7;<D: 2 ;&<;;24 :;4 43D9434 8 435;6 :9= ;4B;2D3 8955 8:3 ;4B328 &*< <3, 92D3 8:32 :3:;4 &&3<34 :9= ;4B9D3 2 =3B3<;5 928= ;24 :;4;57 =8 ;5?;6= =332 98 <3&@=34, 3;592H ?98:8:3 49= @834 438;95= &8:3 2B3289 2 &928<;:3:;4 = >32 92 &;B @< &7 33892H 8:3 <32D: 437;24= ?98:9H:.:;2434 43D9=9 2K :32D3 :3?;= B3G34 C6 ;5<6 7 53A= 832432D6 8 ?;<4= ?3;>23== ;24 D 7 < 79=3, 23 &:9= = 3D9;5 H<93B;2D3= ?;= 8:;8 :3 :;4 C332 <43<34 8 =9H2 8:3 ;<79=89D3 &@H@=8 $$;= <3 <3=32892H 8:3 <989=:;<76 ;58: @H: :3:;4 <9B;8356 < 83=834;H;92=8 98= 438;95= > 9=@2 &&9D9;5 53883<= : 73 4@<92H 85;3 &9<=8:;5& & 3 837C3< ;<3 &@55 &C9883< <37;<>= 2 8:3?3;>23== &8:3 59D6 8:;8:;4 C332 ;4 834 ;24 8:3 7;26 &;@58= &8:3 2B3289 2 3392H 8:;8?;<59>3 3<;89 2= ; 3;<34

; +44+&4+*. .0 K%&0 / 6 / ,. + /. I; 5(& /,+&+). 27,%)3 .0)+3 .%(.%) 6 .0 (3,++ '+). ()2 1* .0 2+&%,+ 6 .0 ' '()2+,!%)!-0%+6 &%3)+2 %. K7. 2%2) .)+3 .%(.+& %.) ,-()'%)'()* '())+,1 -)> &%2+,+2 ,+&/)&%14 6 ,%.& -).+).&< ; & $ %8 SF +44+&4+*. (&.4+,+(30 -. f L 2) .-)&%2+,' *&+46 ,+&/)&%14 %)'()* 2+3,++6 , ;' .0 .+, '&%)' 50%-0 %.5(&6,('+2 ,6 ,'()* 6 %.& /, 8%&%)&< A X D +44+&4+*. , .7(,.; - & $ %8 Q F , (&.4+,+(30 E%8 F .0 M79 6 %-0 ')2;1 && & $ 8% Q"F;

9<@,8:39< ?2 7 @28;92=T638 92 8:3<= ;8: @=;24 <32D: ?98: D;B;5<6 ;24 ;<89553<6?9555 49= 3<=38: @ 24= &8:37,A :36?@54 2 8 ;24 924334 D @54 2 8 53;B3 8:39< 2;89B3 < B92D3= ;24 2 &&9D3< D @54 D;5D@5;83 @ 2 8:37 & <8:3D;<<692H @8 &;H<3;8 D 7C9234 3<;89 2, ?8:32D @54 8:3 <989=:;<76 & <8@H;5 C3 C3=8 37 5 634 8 ;94 =@D:;5593=, :3 256 3&&9D9328 5;2 3553=536 D 2D5@43=? @54 C3 8 5;D3 98 @ 2 8:3 &5;2> ;24 <3;< &;26 <32D:;4B;2D3 8 ;4924 C6 7 B92H 98 @X9 8 8:3 B;5536 &8:3 @< ;24 C;=92H 98 @ 2 =8@<9;= ;24 %;59D9;, =834 92 8:3 >92H4 7 &3 2 ?98:98= <8= &=@ 56 ;8 %9: 2 <@22;; ;24 3<< 5 98 =: @54 D . 3<;83 ?98: 5;>3 ;24 :;2H @ 2 8:3 <9H:8 &5;2> &8:3 <32D:;<76 ?:9D:?;= & <792H @ 2 8:3 5923 &8:3 C< , 593 <3=@58 ? @54 C3 8 <3B328 8:3 92B;43<= &< 7 7 B92H & <?;<4 3B32 3<:; =0:3<3 3553=536 32A34 &< 7 9H2 <;2D3 &8:3 323 76A= 2@7C3<=P 8 C59H3 8:37 8 <389<3 8 ?;<4= 8:39< ?2 &< 2893<, @8 2; ;<83 D @54 @253== DD@ 934 C6 8:3 ;&&;9<= &328<;5 @< 3 92D<3 3 :9= ;<793= 92 ;92 8 ;26 3G8328, :3 7 7328 8:;8 :3 :3;<4 &;2 2H59=:& <D3 92 8:3 &9354 :3 ? @54 D 2=943< 98= 43=8<@D89 2 ;= :9= &9<=8 CX3D8 ;24 = 7@589 56 :9= 2@7C3<= 92 8:3 3292=@5;8:;8 8:3 <989=:D 7 7;243< ? @54 ::B3 8 H9B3 C;D>, T :3<3 7@=8 C3 ;5923 &<38<3;8 32 ;24 8:;8 <38<3;8 7@=8 C3 8:3 =3;, DD <492H56 9< <8:@<<3D 7 732434 8:;8 8:3 =8@<9;= =: @54 C3 7;43 8:3 @5897;83 C;=3 ;24 8:3 8<;2= <8= ;24 =8 <3= =328 8 98= <8 &%9: 2

:9= 53883< ?;= 49&&3<328 92 98= H323<;5D:;<;D83<&< 7 8:3 8:3< <3 <8= ?:9D: ;=853<3;H: ?;= <3D39B92H 7 =8 &8:3 D <<3V = 24328= &8:3 3D<38;<6 & < ;< D @54 ?<983 &2 8:92H C@8 8:3 328:@=9;=89D 8<9 89=7 &8:3 ;29;<4= ;24 8:39< 32 <7 @= <3= 9@AD3= K 8:36 = >3 &8:3 <32D:;= ;49= 9<9834 <372;28 <3;46

* :9=53883< ?<98832 8 ;=853<3;H:&< 7 Q;7C@X;5O P ! 9B, $ .I$P 9= 23 &8:3 7 =8 D 2D5@=9B3 < &= &3553=536A= 79598;<6 H329@=, 3 B;5@34 8:3 ;29=:;<793= ;8 8:39< 8<@3 & <D3, 3 & <3=;?8:;8 2; ;<83 ? @54 7;>3 8:3 4<9B92H &8:3 53 ;<4 928 8:3 =3;K ;928 &: 2 @<;24 ? @54 =324 D < = 2 D < = 928 ;92 92 <43<8 =3D@<398, 3 3B32 2 834 8:;8:3 ;&&;9<= &328<;5 @< 3 T &?:9D: :;B3 2 >2 ?534H3?:;83B3< ? @54 C3 8:3 256 ==9C53 <3;= 2 8:;8 79H:8 <3B328 8:3 7 3< <&< 7 92@24;892H 8:3 3292=@5;?98:: 9= 53H9 2=, 3 =;?8:;8 8:3 <3=32D3 &8:3 <989=:92 3 2 ? @54 C3 8:3 23 8:92H 8:;8 ? @54 >33 8:3 <32D:&< 7 =@C4@92H 328<;5 ;92 K ;49=;=83<92 8:3 @< B;5536 ?;= 8:3 29H:87;<3 &8:3 7 3< <;= :;5& ;4 R32 &:9= 49= ;8D:3= =: ?, :3 &9<=8 23?= 8:;8 <3 ?;= 23;< /;55;4 594 4<3?; 53 2 &< 7 ;4<94 92 ?954 ::=83;24 43&3<<34 & <=9G,7 28:= 8:3 D 2J@3=8 &8:3 B;5536 &8:3 %@;49;2;,

; @

d"#' ' ' / ' % ' E &*'L

8 ' &56' ;8' 8:3)&9<=8' ;88;D>' C3:924' 8:3' 5923' &' 8:3' 6<3233=,' 8' 9=' 8:3<3& <3' H<3;856' 8 ' 8:3' D<3498' &' ;=853<3;H:' 8:;8' :3' 494' 2 8' :3=98;83' 8 ' 92' :9=' &;98:' @ 2' 3553=536A=' 9283559H32D3' ;24' 8 ' <43<' 8:3' 3G3D@89 2' &' 8:3' B3<6' 5;2' 8:;8' :3' <3D 7 7 32434,' 8' ?;=' <;D89D;556' D;<<934' @8' 92' 8:3' H<3;8' D;7 ;9H2' &' 9<' - :2' 9A3' ;&83<' 8:3' D 55; =3' &' 8:3' ;29=:';<793=' :;4' X@=89&934' 3B3<6' ? <4' 8:;8' 9<' <8:@<' :;4' B 98832' ;C @8' 8:37,

3553=536' =;9534' &< 7' 9=C 2' 2' 3 837C3<' $#' ;24' <3;D:34' 567 @8:' 2' D8 C3<' L,' 2' :9=' ;<<9B;5' 92' 2H5;24' :3' B;=' 738' ?' ?98:' 23?=' &';' B3<6' 79G34' D:;<;D83<,' 2' 8:3' 23' :;24' :3' ?;=' <3X 9D34' 8 ' :3;<' 8:;8' C 8:' ;:67 53' ;24' @<<;<4' :;4' C332' <3D;5534' ;24' 8:;8' 9<' - :2' <3' :;4' C332' 5;D34' 92' D 7 7;24' &' 8:3' <989=:' & <D3=' 92'8:3' 3292=@5;,' 3' ?< 83' ;8' 2H3' 8 ' 8:3' 5;883<' 8 ' =;6' 8:;8' 8:3<3' D @54' C3' 2 ' H<3;83<' =;89=&;D89 2' 8:;2' 8 ' =3<B3' @243<' :9=' <43<=' ;24' 8:;8' :3' ? @54' <38@<2' ;8' 2D3' 8 ' ;92' 8 'X 92' :97S' T:3' ? @54' & <?;<4' ?98:' R3;5' 3B3<6' ?9=:A' &' :9=' 23 /' D 7 7;243<,' 8' B;=' ;5=' 7 =8' H<;89&692H' 8 ' 3553=536' 8 ' >2 ?' 8:;8' 8:3' 49=' ;8D:' &' 3 837C3<' $ ' C6' ?:9D:' <3' ?;=' H9B32' 8:3' D 7 7;24' &' 8:3' ;<76' &' <8@H;5' 49<3D834' :97' 8 ' 7 B3' 928 ' <8:3<2' ;92';24' C;=3' :97=35&@ 2' 8:3' =8@<9;=9;24' %;59D9;' 8:3' } B3<6' 5;2' ?:9D:' & <734' 8:3' 7 ;92' 8:3=9=' &' 8:3' 4 D@7328' 8:;8' B3 :;B3' C332' 49=D@==92H,' :3<3' D;2' C3' 2 ' 4 @C8' 8:;8' ;=853<3;H:' :;4' <3D H29R34' 8:3' =8<;83H9D;5' ;24' H5989D;5' B3<9893=' 8:;8' B3<3 37C 4934' 92' 3553=536A=' 53883<' ;24' :;4' <3= 5B34' 8 ' ;4 8' 8:3' 5923' 8:3<392' <3D 7 7 32434,' F

' 3553=536' 8 ' <3' D8,' M' >$ ' - !!' P !' B9,' # P,

3D;5592H8:3 54 4;6= &95>3=;24 3D>& <4 8:36<3= 5B34 8:;8 8:3 <4 ;6 < ?98:;43 @8;89 2 &:3<9&&= 543<732 ;24 7 7 2. @2D955 <==:=:@54 <3=328;38989 2 8 8:3 092H C3HH92H :97 8 <43<T;2 92J@9<6 928 8:9=49=: 2 @<;C53 ;24 @2 <3D3432834 8<;2=;D89 2 & < 8:3 49=D B3<6 ;24 @29=:7328 & 8:=3 C6 ?:=3 79=D 24@D8 ;24 92D; ;D986 8:3 D;@=3 & 8:3 >92H4 7 ;24 98=) ;5593= :;= C332 = =:;7353==56 =;D<9&9D34,A

DD <492H56 =@D:;38989 2 ?;= 5;94 C3& <3 8:3 092H 2 UD8 * C3< $, 8= 83<7= ;<3 ? <8:;7 7328A= ;883289 2 ;= 8:36 =:?B3<6 D53;<56 8:3 928= 2 ?:9D: @5;< 9249H2;89 2 :;4 C332 D 2V D328<;834, T :3 8<3;86 A 98 =8;83= T9= :@7959;892H ;24 43H<;492H C3D;@=3 ;&83<;=9H2;5 B9D8 <6 C6 ?:9D:8:3 3237 6 ; 3;<= 8 ::;B3 C332 D@8[&& &< 7 ;55 73;2= &=@DD @< <3=D; 3 ?3:;4 8:3=;4 7 <89&9D;89 2 &=3392H 8:3 5;@<35= = 2 C56 ;DJ@9<34 8 <2 &< 7 8:3 C< ?= &@< C<;B3 = 5493<= ;24 83<7= H<;2834 8 8:3 3237 6 49=V H<;D3&@5 8 8:3 <989=:2;7 3,,,, 6 8:9= 9H2 7929 @= 2B3289 2 <989=:==:9 =;<3 8 D 2B36 8 <;2D3 8:3 <32D:;<7 6 ;24 98= 5@243<?:3<3 8:36 ?955 C3 ;8 59C3<86 97 7349;8356 8 <3D 7 732D3 8:39<;D89B3 3<;89 2= ;H;92=8 @= ;24 @< ;5593=, 24 8:3 &@55 <3D H2989 2 &8:3 89853 ;24 49H2986 & 7 3< < & <;2D3 ?:953 ;55 73289 2 &8:3 % B3<27328 & <8@H;5 9= 798834 7@=8 C3 D 2=943<34 ;= :9H:56 49=<3= 3D8&94 8 8:3 ;@8: <9893= & 8:;8 D @28<6,A :3<3?;= ;2 8:3< D5;@=3 432 @2D92H 8:3 =32492H C;D> & 8:3 @==9;2 =;95 <= C@8 2 8 = 7@D:=8<3==?;= 5;94 2 8:9= 928, 92;556 8:3 092H 9= ;=>34 T92 X@=89D3 8 8:3 @8<;H34 &33592H= &;C<;B3 92X@<34 ;24 9249H2;28 3 53 ?: =3 C5 4;24 8<3;=@<3 :;B3 C332 8:@= 3G 32434 A 8 D;@=3 8:3 H@9586 3<= 2= 8 C3 @29=:34,

092H %3 <H3 <3 5934 8 8:3=3 &5 ?3<= & <;8 <6 C6 ;= : <8 = 33D:?:9D:49= 5;6= ;479<;C56 8:;8 ?3< &H38892H ;2 DD;=9 2;5 5@D94 H597 =3 &8:3 CB9 @= 92 ?:9D: :3 ?;= C6 2 73;2= 43&9D9328, 3 ?;= &@556 =32=9C53 :3 =;94 &8:3 5 6;586 ;24 H 4 9283289 2= &8:3 986 & 24 2 C@8:3 ?9=:34 8:3 43 @8;89 2 8 <3737C3< 8:;8 8 < 2 @2D3 X@4H37328 ?98: @8 <3B9 @= 8<9;5 ;24 92B3=89H;V 89 2 ?;= :;<456 D 2= 2;28 ?98: 8:3 <92D9 53= & <989=:X@=89D3, 3 ?;= ;5?;6= <3;46 8 92=898@83 ;2 92J@9<6 ?:32 8:3 : 2 @< & 8:3 <989=: ;<7= ?;= 92 J@3=89 2 ;24 8:3 9283< =989 2 &8:3

* :3 38989 23<= @H:8 92 &;9<23== 8 :;B3 =8;834 8:;8 8:9= ?;= 256 7;43 99[8:3 4 D@7328 =38892H & <8:8:3 ;<79=89D3 ;24 2 8 92 8:3 43&92989B3 2B3289 2,

$"L U W B, L

986 &' 24 2 ? ; = 2 8 23D3==;<6 8 924@D3 :97 8 =38 23 2 & 8 92 8:9= D;=3 ? :32 8:3 : 3= ;24 3G 3D8;89 2=. &8:3 2;89 2 :;4 C332 =)7@D: 49=; 92834, ;

8 ? ; = 2 8 : ?3B3< 89 =3B328332 4;6= 5;83& 8:;8 :9= 7 ;X3=86A= & <7 ;5 <43<= & < 8:3 =@7 7 292H &;' @<8 &' 2J@9<6 T8 92V B3=89H;83 928 8:3 5;83 <79=89D3 ;24 2B3289 2 D 2D5@434 92 <8@H;5 ;24 ;55 8:3 D9<D@7=8;2D3= D 223D834 8:3<3?98: A ?3<3 D 7. 7 9 7 9D;834 8 8:3 7 7 ;243<.92. :93&, ;5<6 7 53 ;24 @<<;<4 C 8: &' ? : 7 : ;4 2 ?<38@<234 8 2H5;24 ?3<3 49<3D834 8 : 54 8:3 7 =35B3= 92 <3;4923== 8 <3=328 8:3 7 =35B3= C3& <3 8:3 D @<8 ;24 3553=536 & <8:3 =; 93 <3;= 2 ? ; = 49<3D834 8 ;C;24 2 :9= < X3D8 &' H 92H C;D> 8 8:3 3292=@5;' 92 <43< 8 =3<B3 8743< 9< - :2 <3,

:3 7 3 7 C3<= &' 8:3 D353C<;834 @<8 &' 2J@9<6 ? :9D: D 7V 7 32D34 98= =98892H= 2 B3 7 C3< Lh M#M ?3<3 =3B32 92 2@7C3< ; H323<;5 &&9D3<= &' H<3;8 <3= 3D8;C95986 ;24 ;4B;2D34 63;<= 732 7 <3 59>356 & < 8:3 7 =8 ;<8 8 =67 ;8:9R3 ?98: D;@89 2 8:;2 ?98: 4;<92H, :3 <3=94328 ?;= 9< ;B94 @24;= 8:3 ;@8: < &' ;D353C<;834 4<955.C > ? :9D: :;4 5 2H C332 8:3 83<< < &' 6 @2H &&9D3<= K 8:3 8:3< 7 3 7 C3<= ?3<3 <4 9<; < 3;8:&9354 8:3 ;<5 &' 3 7 C< >3 ;24 %323<;5= <;9H 9< %, @H328 ;24 9D: 55=, 8 23 &' 8:3 7 : ;= 53&8 C3:924 ;2;73 8 C3 <3 7 3 7 V C3<34 =;B3 924334 <4 9<; ? : ;= <4 ;?4 2 92 8:3 54 7 3<9D;2 ;<: ;4 ? 2 8:3 B9D8 <6 &' C>9<>A= 955 ;24 ? : ? ;= 43=89234 8 C3 8:3 23G8 /9D3< 6 &' 249; ;24 8 7 ;>3 8:3 2;73 &' ;=892H= &;7 @= & <;=3D 24 89 7 3 92 8:3 ;=8,

:3 D @<8 C3H;2 98= =98892H= 2 B3 7 C3< L ;24 494 2 8 83<7 92;83 8:3 7 8955 3D3 7 C3< $$, 2 8:3 H<3;8 :;55 &' :35=3;= 98;5 ? :3<3 98= < D33492H= ?3<3 :354 8:3<3 ?;= 7@D: ?;<7 43C;83, =8:3 438;95= &'8:3 ;7 ;9H2 &' <8@H;5?3<3 H<;4@;556 ? <>34 @8 2 8 256 C6 8:3 D< ==.3G;792;89 2 &' ;5<6 7 53 7 <;<4 ;24 3553=536 C@8 C6 8:;8 &' 7 ;26 &'8:3 8:3< &&9D3<= &' <;2> ? : ;4 C332 92 <8@H;5 32D3< D5;24 3<H@= 2 <4 @<H:3<= ;24 8:3<= 8:3 928= 2 ? :9D: 8:3 B3<49D8 &' 8:3 D @<8 7@=8 8@<2 H<;4@;556 C3D;73 D53;<, :36 ?3<3 =9G 92 2@7C3<K ;4 9@<;<4 C332 X@=89&934 92 <3B32892H 3553=536 &< 7 @<=@92H 8:3 <32D: ;8 8:3 324 &'8:3 C;8853 &' /9793< 2 ;4 ;5<6 7 53 3<<34 92 <3&@=92H 8 8;>3 3553=536A= ;4B9D3 8 7 ;<D: 8 &' D @<=3 8:3 59 8 ? : ;4 43&32434 %9C<;58;< = ?355 92 M#.I C@8 :9= = 2 8:3 =3D 24 <4 3;8:&9354

2 ;&<;' 8:3' 23G8)7 <292H' b : @54' 03553<7;22A=' &&3<' &' ;2' ;<79=89D3' :;B3:37';DD3 834' 2'8:3'8?3286.=3D 24';24'9&'=';?3<3' 8:3'83<7='H<;2834':97'8 ';&;B @<;C53'b ;=856';?;='8:3' 2B3289 2' &' 928<;' 98=35&X@=89&9;C53' @243<'8:3' 3G9=892H' D9<D@7=8;2D3=';24' ?3<3' ;55' 98=';<89D53='<3;=2;C53';24' < 3<'b @D:' 3B9432D3' ?;=' < 4@D34'&<';24';H;92=8'3;D:' B93?' 2' 3B3<6' 23' &'8:3=3'8 9D=,' 2'8:3' &9<=8'8?' 3553=536' <;D89D;556'97 3;D:34' @<<;&4';24' ;5<67 53'& <'@2?;<<;28;C53'=5;D>23==';24'897 94986,' 3'?;='= ' 7@D:' 92'5 B3'?98:':9=' ?2'C 54' 5;2='8:;8':9=' =@ 3<9 <A=' D;@89 2' ; 3;<34'8 ':97'D 2837 89C53,' 3'=8 4'@ '8 '8:37';24'D< ==.' J@3=89 234'8:37'?98:';2';D94986';24';'D 7 5383'?;28' &'43&3<32D3' 8:;8'=337 34'B3<6'<3 <3:32=9C53'8 ' 79598;<6'732'=833 34'92'8:3' 54' 8<;4989 2=' &'@2J@3=89 292H'43&3<32D3'8 ' 23A=' =329 <' &&9D3<=,' 9<' ;583<' D 88' ?: ' & 55 ?34'8:3'92J@9<6'?98:'H<3;8'9283<3=8'D;5534' :97'T';':;@H:86'43B95A'C@8'3G <3==34':9=';4799<;89 2'& <':97';8'8:3' =;73'7 7328' 8'9=' D@<9 @=' 8 ' &924'8:;8' 3553=536'=: ?34'53==' ;2H3<'?98:' @<<;<4'?: =3'D;@89 2' 2'8:3';&83<2 2' &'8:3'8?3286.' &9<=8'<3;556'?<3D>34':9=' 5;2' &'D;7 ;9H2'8:;2'?98:' ;5<67 53,' ' :3'5;883<';4'=2@CC34':97' 2':9=' &9<=8';<<9B;5';4' 3<=9=832856' <3&@=34':97':9=' D 2&9432D3';24'? @543 2 8'=8;83'D53;<56'8'8:3'D @<8' 8:;8'8:3';<79=89D3'8: @H:'98'C <3' 3553=536A=' 2;73';4'2 8'C332' 4<;?2'@ ' <';' < B34'92' 438;95'C6':97,' &'8:3'2@73< @=' 792 <' ?823==3=' ?: ' ?3<3'3G;79234';55' ?: ' :;4'=3<B34';8' 59 ;';24' /9793<'= >3' 2' 3553=536A=' =943K' 32D3<';24' 3<H@= 2' ?3<3' 3= 3D9;556'=8< 2H'92'8:39<'=8;8373 28=,' :3'&;D8'?;='8:;8'8:36'?3<3' 92832=356' < @4' &'8:39<'8? '&9H:8='';24'5 >34'@ 2' 7 ;<4';=' 8:3'7;2'?: ';:;4' <3B32834'8:37'&9A 7'3283<92H' 9=C 2'92'8<9@7 :' ;&83<'D; 8@<92H'-@2 8' ;24':9=' ?: 53' : =8,' '=8< 2H' ?;=' 8:9=' &33592H'8:;8'8:3'C<9H;493<=';24'&9354. &&9D3<=' RS'8:3'39H:8'C<9H;43=' 8:;8'& @H:8';8'/9793<'';4' <3=32834' 3553=536'?98:';';:;24= 73' 83=897 29;5 ;'=3<B9D3' &'5;83'? <8:'d ### ;=';'= <8' &'7;<>' &' D 2&9432D3'92':97';24' &' < 83=8';H;92=8'8: =3'?: ';:;4'=8;634':9=' :;24,

2'8:3' 8:3<';24' @<<;<4';24' ;5<67 53'@<H34';55'8:3'X@=89V &9D;89 2=' &'D;@89 2,' ;D:';4';<<9B34';8';'D<9=9='8:3' 438;95=' &' ?:9D:'D @5D& 2 8'C3' < 3<56'>2 <;'8 ':97'&< 7'=:33<'*?;28' &' 897 3'8 ' 7;=83<'8:37,' ;D:';D>2 ?534H34'8:;8' 3553=536':;4' B3:37 32856' <3==34':97'8 '=8<9>3'C 5456';24' < 7 856'C@8'8: @H:8' 8:;8':3';4'2 8'C332'X@=89&934'92'4 92H'='8955':3';4'7;43' @8'& <'

* D>:;<8A=! ' '1 ' '1' $99,' $$N,

M##M] ; U $" "

<43<34 8 ,D 2B36 8 ;&96 7 53 9= ;X3=86=49=; < C;89 2 &
8: =3 ;<89D53=92)8:3 2B32892 92 ?:9D:=89 @5;89 2=?3<3 7;43
;&&3D892H)8:3 9283<3=8=;24 Z33592H= &8:3 ;29=:;24 <8@H@3=3
2;89 2=)) ,A 8 ?;Y 8 A\C3 97 <3==34 @ 2 9< 3?8:;8 98 ?;=
7 =8 97 < 3< ;24 4;2H3< @=8 ;4 7 98 928 ;7 9598;<6 D 2B32892
;<89D53= &=@D:;43=D<9 89 2 B:9D:03= 3D9;556 ?:32 D;<353==56 ;24
,92D;@89 @=56 &<;7 34P 7 9H:8 53;4 8 8:3 7 =8 92X@<9 @= D 2=3V
J@32D3=, @<8:3<7 <3 ;:6 7 53 ?;=8 C3 H<;B356 D32=@<34 & <
:9=3G8<; <492;<6 435;6 92 2 8 =32492H8:3 23?= &8:3;<7 9=89D3
&8:3 8?3286.=3D 24 8955 3 837C3< I ?:3<3C6 TH<3;8 @C59D 92D 2V
B32932D3A:;4 C332 D;@=34,

8 D;22 8 C3 432934 8:;8 8:3=3 <3C@>3= ?3<3 ?355 43=3<B34K ?3
:;B3 ;5<3;46 92834 @8 8:;8 8:3 8:<33 ;<89D53=8 ?:9D:;55@=9 2
9= 7;43?3<3 8:3 256 ;<8 &8:3 2B32892 &<?:9D:2 43&32D3
9= ==9C53, 8 9= 3J@;556 D53;<8:;8 98 ?;=8:3 8:9<8332 4;6=H;
92 8:3 92& <7;89 2 =328 : 73 ?:9D:H;B3 8973 & <8:3 <9=3 ;24
43B35 7328 &8:3 @2<3;= 292H @5;< ;H98;89 2 ;H;92=8 8:3
?: 53 ;H<33 7328 7;43?98:-@2 8,

=8 8:3 B3<49D8 &8:3 D @<8 98 4 3= =@C=8;289;5X@=89D3 8 8:3
D;=3, :3<3 3G9=834 T&;9< 7 9598;<6 <3;= 2=A &<; 8:;8 @<<;<4
;24 ;5<6 7 53 :;4 4 23 <53&8 @24 23, 2 ;=9 7 95;<?;6 T&;9<
7 9598;<6 <3;= 2=A D;2 C3 ;553H34 & <7 =8 &8:3 7;92 =59 =;24
3<< <=D 7 7 98834 4@<92H;26 D;7 ;9H2 92 8:3 ; 53 29D ;< & <
@ 28=8;6 ;8 24@X;< <& <7<;6=<38<3;8 &9A 7 ;<<;H 2;
<& <%< @D:6= 3<;89 2= 2 -@23 ;24 M M , 8 ? @54
* C3 @2X@=8 8 @29=:54 ;24 <3= 3D8;C53 H323<;5= & <7 3<3 3<< <= &
X@4H3 7 328 ;24 92;C9598 8 <9=3 8 8:3 :39H:8 &8:3 =98@;89 2,
@<<;<4 ;24 ;5<6 7 53 :;4 =;D<9&9D34 8:3 7 =8 C<9559;28 ==9C959V
893= C6 8:39< 8 < 94 D;@89 2 ;&83< <3&@=92H 8 59=832 8 3553=536=*
D H328 ;<H@7328= & <C 54 ;D89 2, @8 8:39< D 24@D8 :;4 <3=@5834
2398:3< &< 7 D ?;<49D3 2 < &< 7 4359C3<;83 3<B3<=986, :3 C5;73
7@=8 <3=8 J@983 ;= 7@D:2 8:3 H B3<2 7328 ?:9D:;4 328<@=834
8:3 3G 34989 2 8 3543<56 732 @2;DD@=8 734 8 D 7 7;24 92 8:3
&9354 ;= 2 8:=3 732 8:37=35B3=, 24 ;= 8 8:3 438;95= &8:3
;<79=89D3 ;24 2B32892 ?3 7;6 ?355 ;DD3 8 3553=536=B3<49D8
8:;8 8:3 H;92 =3D@<34 C6 8:3 <3=D@3 &9=C 2 ?98:;55 98= ?3;58:
928;D8 ;24 C6 8:3 <7 8 83<792;89 2 &8:3 D;7 ;9H2 &@556
X@=89&934 8:3 <3= 5B3 2 8 8 4<9B3 -@2 8 8 3G8<37986,

@8 8:3<3 ?;= ;2 @23G <3==34 D <55;<6 8 8:3 B3<49D8 &8:3
 D M 6 @& * + * $;<;H<; :=L ;24,

U E /&$

D @<8 ?:9D:8:3 7929=8<6 &@556 <3;59R34 ;24 @ 2 ?:9D:8:36 ;D.834, @<<;<4 ;24 ;5<6922 53 ?98:8:39<1&;9< 79598;<6<3;= 2=A 7@=8 23B3<;H;92 ; 3;<92 8:3 &9354, 8 ?);= 2 8 C6 =@D:7322 8:;8 2; ;<83 ? @54 C3.& 9534 ;24 ;92 37;2D9 ;834);24 = 8:36 ?3<3 <353H;834 8 : 73 =3<B9D3 ;24 J@938 <389<37328 & <8:3 <3=8 &8:39<59B3=, 3553=536 2 8:3 8:3<:;24 ?;= 7;<>34 @8 ;= ;7;2 323<H6<3= @<D3 ;24 4383<7 92;89 2 37923285 6 &98 8 C3 37 5 634 ;H;92, 98:92 & @< 7 28:= &8:3 83<7 92;89 2 &8:3 <D33492H= &8:3 @<8 & 2J@9<6:3 ?;= 2D3 7 <3 92 D 7 7;24 &8:3 <989=:;<7 6 92 8:3 3292=@5; ,

);3 <D33492H= 83<7 92;834 3D, $ M##M, 3553=536 8 > @ 8:3 D 7 7;24 ;8 9=C 2 2 <95 $ M#",

BB

A % %

0- .- M#MP

M##M] & * * , $: =F=

J 9; 79H:8 C3 977349;8356 =@ <834 &< 7 8:3 ;53;<9D =53= ?:3<3 ; :3;B6 H;<<9= 2 ?; ;5?;6= >3 92 <43<8 H@;<4 ;H;92=8 ;26 43=D328 &,8:3 <989=:8 <3D B3<8:39< 54 =8< 2H: 54 & <8 ;: 2 & ; 53 2 :;4 <3;59R34 92 ;6 8:;8 8:3 ;29=: <9=92H ?;=;C @8 8 =?33 A B3<8:3 ?: 53 3292=@5; :3,? @54 2 8 :;B3 4;<34 8 53;B3 @:3=923 ?98: =@D: ; =7;55 & <D3, ; @8 3<V =9=892H 92 :9= <9H92;5 C5@243< & C3593B92H 8:;8:3 8< @C53= ?:9D: :;4 C< >32 @8 ?3<3 73<356 5 D;5 ;24 = <;49D :3 ?;= ;C @8 8 <43< @:3=73 8 7;>3 5;<H3 438;D:7328= &9A 7.; D 9) =8:;8 ?;= ;5<3;46 4;2H3< @=56 ?3;>,

:3 H3 H<; :6 & ;8;5 29; ;= ?3 :;B3 :;4 DD;=9 2 8 <35;83 92 ;2 3;<593<D:; 83< 9= <;8:3<D 7 59D;834, 8 256 9= 8:3 <92V D9 ;5986 D@8 && C6 98= 7 @28;92= &< 7 8:3 <3=8 & ;92 98 &;D3= 8 ?;<4= 8:3 =3; ?):953 98=, 239H:C @< <;H 2 &;D3= 8 ?);<4= 8:3 C< C@8 95 9= 49B9434 C6 98= 2@73< @= D< ==.<;2H3=928 ; 2@7C3< & 9= 5;834 B;5536= C38?332 ?:9D: D 7 7@29D;89 2 9= B3 6 49&&9D@58, 8= D ;=8. 5;92 ;5 2H 8:3 34983<<;23;2 9= H323<;556 2;<< ? ;24 &832 D@8 ;D< == C6 = @<= ?:9D: <;2 4 ?2 &< 7 8:3 7 @28;92= & 8:3 925;24 8955 8:36 =8<9>3 8:3 =3;, GD3 8 2 8:3 3;=83<2 =943 & 8:3 <92D9 ;5986 ?:3<3 98 8 @D:3= <;H 2 92 8:3 49<3D89 2 & 3<94; 8:3<3 9= 2 C< ;4 3G ;2=3 & 53B35 H< @24 ?98:92 98= C <43<= 7@D: 8:3 H<3;83< ;<8 & 98= =@<&;D3 9= @ 5;24 ;24 7 @28;92,

;8;5 29; 7;6 C3 49B9434 928 & @< <3H9 2= 8:3 &9<=8 9= 8:3 49=8<9D8 ;8 8:3 & 8 & 8:3 ;=83<2 6<3233= 4<;9234 C6 8:3 5@B9; ;24 8:3 3<, :9= 2;<< ? D <23< 9= D;5534 8:3 7 @<4;7 98 D 28;92= ; 8:3 &< 2893<.& <8<3==3= ?:9D: < 83D8 8:3 < B92D3 2 8:3 =943 & <;2D35 =;= D 7 7;24= 8:3 ;==;5 2H 8:3 =3;.=: <3 9H@3<;= 8:3 7;92 < ;4 &< 7 3< 9H2;2 ?:9D: <@2= = 73 8?3286 7953= &@<8:3< 925;24, 598853 &@<8:3< = @8: C 8: 8:3=3 < ;4=

:3 ;29=: H;<<9= 2= 92 8:3 ;53;<9D =53= D 2=9=834 & 8:3 & 55 ?92H 8< =K

3H97328 &%<;2;4; 08:<333C;88=,P
3H97328 & <9; 08:<333C;88=,P ,
3H97328 & <C 2 08:<333C;88=,P
?9== 3H97328 & 3=D:;<4 08? C;88=,P
9H:8 2&;28<6 & ;<D35 2; , ; $,
E E <;H 2 , $,
95989; ;88;59 2 & ;X <D;,
8: @==;<=; o & '
<89553<6 ,,,

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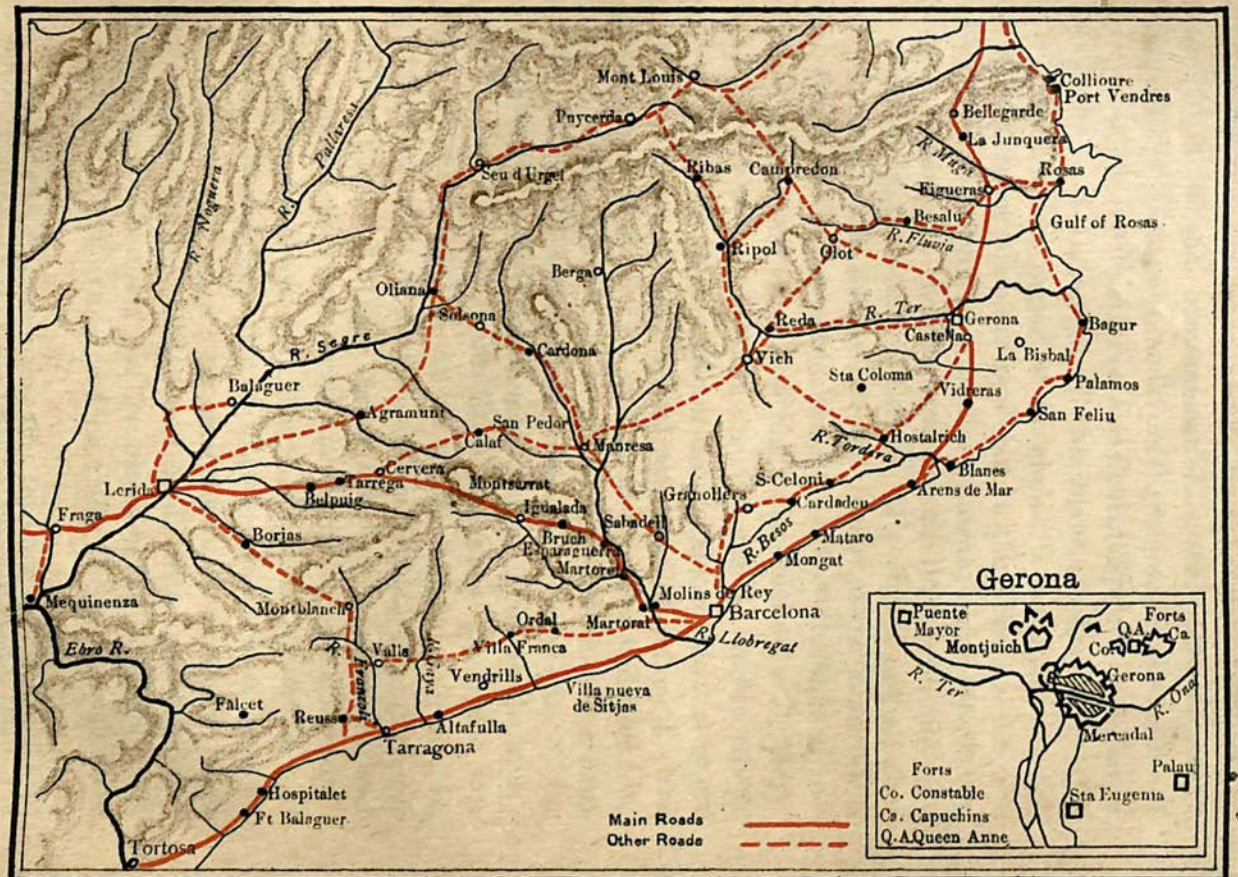
Catalonia.



Darbishire & Stanford Limited.

Scale 0 50 English Miles

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To face page 304.

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:3 & @<8:;24 5;=8 <3H9 2 &;8;5 29;9= 8:3 925;24 ?:9D: 5 >= 2 8 8 ?;<4= 8:3 34983<<;23;2 C@8 8:3 C< ;24 <;H 2, 8 9= 4<;9234 C6 98= 8<9C@8;<93= 8:3 H@3<;24 8:3 ;<3=;&;55= 928 8:3 C< 2 8 &;< 8:3 = @8: &3<94;, :3 8<;D8= ;< @24 8:;8 8 ?2 ;<3 &5;8 ;24 &3<8953 ;<8 &8:3 7;92 B;5536 &8:3 C< @8 8:3 :3;4.?;83<= &8:3 3H<3 ;24 98= ;&&5@328= &5 ?8:< @H:2;<< ?;24 49&&9D@58 7 @28;92 B;5536= =8;<892H 92 8:3 :9H:3=8 ;24 ?9543=8 <3H9 2 &8:3 6<3233=, :36 ;<3 B3<6 92;DD3==9C53 ;24 =3<B34 C6 2 < ;4= =@98;C53 & < 8:3 @=3 &;2 ;<76, 32D3 59>3 8:3 @ 3< B;5536 &8:3 5 C<3H;8 8:36 =3<B34 ;= 5;D3= &<3&@H3 & < 8:3 ;8;5;2.92=@<H328= ?:32 3<94;;24 8:3 &5;8 D @28<6:;4 C332 5 =8, :3 256 5;D3 &9 7 <8;2D3 92 8:3=3 :9H:5;24= 9= 8:3 <3 7 83 8 ?2 &3@ 4 <H35 0 ;7 349;3B;5 & <8<3== 23;< 8:3 =@<D3= &8:3 3H<3 ; < ;D:34 C6 7 @53. ;8:= 256 ;24 J@983 5 =8 92 8:3 :955=, ;8;5 29; 8:32 9= <3.3 7 9232856 ;7 @28;92 5;24 ;24 23 <3=32892H 3D9;5 49&&9D@5893= 8 ;2 92B;43< C3D;@=3 98 :;= 2 D328<;5 =6=83 7 &< ;4= < B;5536= C@8 9= 49B9434 928 = 7;26 :383< H323 @= ;<8=, : @H:2 8 &3<8953 98 ?;= 638 <9D: ;24 &;9<56 ?355 3 534 ?:32 D 7 ;<34 ?98: 8:3< <3H9 2= & ;92 0 8= ?3;58: D;73 2 8 &< 7 ;H<9D@58@<3 C@8 &< 7 D 7 7 3<D3 ;24 7;2@&;D8@<3=, ;<D35 2; ;D986 & M# ### = @5= ?;= 8:3 H<3;83=8 34983<<;23;2 <8 & ;92 2 3;D: =943 &98 ;5 2H 8:3 D ;=8 ;<3 4 R32= &5;<H3 &9=:92H.B955;H3= ;24 =7;55 :;<C @<.8 ?2= 4<;?V 92H 8:39< 59B92H &< 7 8:3 =3;, &8:3 5;D3= ?:9D: 5;6 &;<8:3< C;D> &< 7 8:3 ?;83< 8:3<3 ?3<3 7;26 ?:9D: 7;43 ;2 ;7 53 < &98 &< 7

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* :3 @5;89 2 &8:3 <92D9 ;5986 92 M#I ?;= = @5=

;

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' 'D;5534'&< 7' 9J@35 8'43' <;8='8:3' ;8;5;2' '?:'=3<B34' @243<' ;3=;<' <H9;,' < 7':97'8:3'59H:8'92&;28<6'2D3'D;5534' * ' H 8'8:3'2;73' &' B

?;= 92=9 9&9D;28, :3 ;8;5;2= < =3 8 A43&324 8: 9< < B92D9;5 9243 32432D3 ;24 8 <3D B3< 8:39< D; 98;5 ?:9D: :;4 C332 =39R34 = =:;7353==56 C6 8:38<9D>3<6 &@:3=73, :36 494 2 8 D 2D3<2 8:37=35B3= 7@D: ?98: ?:;8 ?;= H 92H 2 92 <;H 2 ;24 /;532D9; <3B32 92 ;4<94, :39< &9H:8 ?98: 8:3,92B;43< & <7= ;2 3 9= 43 D 7 5383 92 98=35& ;= <8 &@243< 5 8 92 8:3 H<3;8 4<;7 ;& 8:3 3292=@5;< ;< ? :9D: 256 8 @D:3= 8:3 7 ;92 =8<@HH53 ;8 92&9<3J@328 9283<B;5=, 8 ?;= 2 8 ;&&3D834 C6 8:3 D;7 ;9H2= & ;=8953 =89 53== :;4 98 ;26 2 89D3;C53 92&5@32D3 2 8:37, 8 ? @54 C3 3J@;556 ==9C53 8 ? <983 8:3 :9=8 <6 &8:3 ?;< 92 ;8;5 29;;= ;=3 ;<;83 8<3;89=3 < 8 D 7 953 ;H323<;5 :9=8 <6 &8:3 ?;< 92 ? :9D: ;8;5 29; ?;= C;<356 73289 234,

:32 8:3 3D: 3= &8:3 D;22 2 &8:3 =3D 24 & ;6 ?328 < 5592H < @24 ;92 8:36 =89<<34 @ ;8;5 29; 2 53== 8:;2 8:3 8:3< < B92D3= ?:9D: 593 ;8 ;49=8;2D3 &< 7 8:3 D; 98;5, :3 :32 732; ?:9D: ; 3;<34 92 8:3 @8: ;24 8:3 3=8 ?3<3 <3 3;834 :3<3 92 7@D: 8:3 =;73 =3J@32D3 ;24 ;8 7@D: 8:3 =;73 4;83= ;= 35=3?:3<3, @8 8:3 <9=92H &8:3 ;8;5;2= ?;= H<3;856 :;249D; 34 C6 8:3 &;D8, 8:;8 8:39< @5 @= ;24 ?3;58:6 D; 98;5 ?;= DD@ 934 C6 $###< <32D: 8< =, ;<D35 2; D @54 2 8 =38 8:3 3G;7 53 8 8:3 =7;553< 5;D3= ;24 & < = 73 8973 8:3 @8C@<=8 ?;= = ;=7 49D ;24 5 D;5, :3 D:93& & D@= &<3C3559 2 ?;= 3<94; ?:3<3 ;2 92=@<<3D89 2;9< -@28;?;= & <734 2 ;6 $", 8 <8 =;8:3 @5;D3 < =3 ;&3?4;6= 5;83< ;24 7@<43<34 8:3 7 9598;<6 H B3<2 < ;289;H 43 %@R7;2 C3D;@=3 :3;4; C332 =5 ?;24 <35@D8;28 8 5;D3 :97V =35&;8 8:39< :3;4, 2 -@23 $;2<3=; 92 8:3 @ 3< B;5536 &8:3 5 C<3H;8 & 55 ?34 8:39< 3G;7 53 ;24 &< 7 98 8:3 &5;73 &92=@<V <3D89 2 = <3;4 ;55 B3< 8:3 D328<;5 @ 5;24, 2 ;<D35 2;98=35& 8:3<3 ?3<3 =3D<38 733892H= ;24 =@= 9D9 @=H;8:3<92H= 92 8:3 =8<338= 2 ? :9D: @:3=73 :;4 8 >33 ;? ;8D:&@5 363, @8 8:3 7;92 <3 DD@ ;89 2 & 8:3 <32D: H323<;5 ?;= 8:;8 8:3<3 ?3<3 =89 =3B3<;5 8: @=;24 ;29=: 8< = 92 8:3 8 ?2 ?*: 79H:8 3;=956 53;4 8:3 @5;D3 92 ;2 3 :;4 H 8 <94 & 23 <3H97328 8:;8 & =8<37;4@<; 92 ;6K :3 H;B3 98 <43<= 8 7;<D: 8 3<94; ?:3<3 8:3 7;H9=8<;83= ;24 3 53 <3&@=34 8 <3D39B3 98 ?98:92 8:39< ?;55= 4<3;492H 8:;8 98 79H:8 2 8 C3 <3;46 8 X 92 92 8:39< < X3D834 <9=92H, :9= ?;= ;B;92 &3;< & <8:3 D < =<3;4956 8 >98= ;<8 92 8:3 92=@<<3D89 2 ;24 7;<D:34 8 X 92 ;5;& G ;8 ;<;H ==;, @8 8:3<3 =8955 <37;9234 92 ;<D35 2; C;88;59 2 3;D: &8:3 ;29=: ;24 8:3 ;55 2 %@;<4= ;24 8:3 D;B;5<6 <3H97328

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;B34 &< 7 8:3 3<95 &;<9=92H &8:3 ;29=:<3H9 7328= 92 ;<D35 2; @:3=73 :;4 =8955 8:3 92=@<<3D89 2 &8:3 < B92D3 2 :9= :;24= @8 :3 ?;= 2 8 53&8 &<33 8 43;5 ?98:98 ;DD <492H 8 :9= ?2 92= 9<;89 2=, 6 8:3 5;=8 49= ;8D:&< 7 ; 53 2 ?:9D: <3;D:34 :97 C3& <3 8:3 D 7 7@29D;89 2= ?98: ;4<94 ;24 ;6 223 ?3<3 D@8 ;5;2 &D;7 ;9H2 ?;= 49D8;834 8 :97, :3 7 3< < <43<34 :97 8 D:;=89=3 8:3 92=@<H328= & 3<94;;24 ;2<3=; ?98: @8 D3;=92H 8 >33 ;=8< 2H H<9 2 ;<D35 2; ;24 2 8:3 5923 & 8 @D:?98: <;2D3 8:< @H: 9H@3<;=, @8 ;= 9&8:9= ?;= 2 8 32 @H: 8 DD@ 6 :9= =7 ;55 ;<76 &) $ ### < I ### 732 :3 ?;= 8 < B943 8? =8< 2H 438;D:7328= 23 &?:9D:?;= 8 D . 3<;83 ?98: 2D36 92 /;532D9; ;24 8:3 8:3<?98: 3&3CB<3., 3=2 @3883= 92 <;H 2, H5;2D3 ;8 8:3 7 3< <= 92=8<@D89 2= 9= 32 @H: 8 =: ?: ?3289<356 :3 ;4 79=D 2D39B34 8:3 =98@;89 2 ;24 : ?8: < @H:56 :3 ;4 &;9534 8 <3;59R3 8:;8 ;55 ;92 ?;= @ 92 ;<7=, :3 &9<=8 438;D:7328 L ### =8< 2H ?;= 8 7 ;<D: 2 3<94; ;24 8 3283< <;H 2 ;5 2H 8:3 5923 &8:3 C< , 8 ?;= 8:32

:3<3 ?3<3 L## ;29=:%@;<4= ;8 8:3 &9H:8 2 8:3 ;C<955;=?: 7@=8 :;B3 D 73 &< 7 8:3 C;88;59 2 ;8 ;<D35 2;,

* D;22 8 7;>3 @8 8:3 7 B37328= &8:3 D;B;5<6 <3H9 7328 &<C 2 98 ?;= D3<8;9256 ;8 ;<D35 2; N## =8< 2H 92 ;6, @8.92 -@56 98 :;4 H 8 4 ?2 8 24;5@=9; ;24 ?;= 7;<D:92H ?98:;=8<32H8: &L# 92 8:3 ;<<;6 &;=8;2 =,

8 7 B3 2 ;<;H ==; 8 X 92 3&3CB<3, :3=3D 24 438;D:7328 ;5= L# =8< 2H ?;= 8 7 B3 2 /;532D9; B9; <8 =; X 92 ;<=:;5 2D36 ;24 &92;556 DD@ 6 8:3 H<3;8 2;B;5 ;<=32;5 &; <8;H32;, 98:8:3 ###7 732 8:;8 <37;9234 @:3=73 ?;;8 : 54 4 B2 ;<D35 2;;24 328<;5 ;8;5 29; ?:953 >33 92H 32 8:3 5923 &D 7 7@29D;89 2= ?98: 9H@3<;=;24 3< 9H2;2,

98:3< @:3=73 ?;= ;= C5924 8 8:3 <3;5 =8;83 &;&&;9<= ;= :9= 7;=83< < :3 D 2=943<34 8:;8 @2J@3=89 292H C34932D3 ?;= :9= &9<=8 4@86, 3 8 54 &&8:3 8? D 5@72= ;= 49<3D834 256 D@8892H 4 ?2 8:39<=8<32H8:;598853 = ;=2 8 ?: 6 8 @2H;79=: ;<D35 2;; < 8:3 /;532D9;2 3G 34989 2 :3 8 54 &&%323<;5 :;C<;2 ?98: 8:3 C3=8 C<9H;43 92 :9= ;<76 8:<33 B383<;2 <32D: C;88;59 2= &8:3 8:;24 N8: &8:3 5923 98:8:9=& <D3 :3=328 :9= =92H53 C<9H;43 &<32D: D;B;5<6 8? <3H979328= @243< %323<;5 3==93<3 08:3 C< 8:3< &8:3 @>3 &=8<9;P, :3?: 53;7 @2834 8 $ ## & 8;24 N## : <=3, <8:3;88;D> 2 3<94;:3:;4 8 =324 @8 8< = &7 <3 4 @C8&995 B;5@3 ;55 & <39H23<= & <8:3<3 ?3<3 2 <2 <3 <32D: 8 C3= ;<34, %323<;5 D:?;9.8R ?;= H9B32 23 ?9== 8? 3; 598;2;24 23 8;59;2 C;88;59 2*? 98: 2 7 <3 8:;2 ; =92H53 =J@;4< 2 &D;B;5<6 & <:9= 7;<D: ?;= 8 593 B3< ;B3<6

* :9=& <D3 ?;= % @5;=A= <9H;43 &:;C<;2A= 9B9=9 2 B9R, 1
8: &8:3 923 0 =8;24 $24 C;88=,P ; ; M
N8: 0I<4 C;88,P ; ; ; M"

$ L

;24 3==93<3=A ;B;5<6K
I<4 < B9=9 2;5 @9<;==93<= 0792@= 23
= J @ ; 4 < 2 P,,,

I #' ' %% ' ' ' E:F /H

7 @28;92 @=' D @28<6,' 9=' ?: 53' & <D3' ?;=' I $##' =8< 2H,' '
8:3' H323<;5' 49<3D89 2=' H9B32' C6' ; 53 2,' @:3=73' ;4434' = 73'
=@ 5373 28;<6' <43<=' &':9=' ?2,' :;C<;2';?;=' 8 ' ;==' C6' ;<<;V
H 2;' 53;B3';' C;88;59 2' 92' 98=' D98;435';24' 8;>3';=';' D 7 32=;89 2'
8:3' 8? ' C;88;59 2=' &' 97 &32A=' ?9==' 3H97328';?:9D:';?;=' 8 ' C3'
92D < <;834' 92' 8:3' <32D:';<76,' 8' ?;=' 3G 3D834' 8:;8' :3' ? @54'
H38'928 '8 @D:'?98:' ;<=:;5' 2D36';?:32':3'=: @54'<3;D:' ;=83 2'
43'5;' 5;2;,' D:?;<8R' 2'8:3' 8:3<:;24'?;=' 8 54'8 ' 7;<D:'C6'8:3'
7 @28;92'< ;4'53;492H'8 ' ;2<3=;'92' <43<' 8 ' @29=:'8:3'92:;C98V
;28=' &'8:;8'8 ?2'& <'8:39<'<3C3559 2,' 3'?;=' 8 '&923'8:37' # ###'
&<;2D=' ;24'8 ' 43=8< 6';' ?43<.7955'?:9D:'8:36' ==3==34,' 3'?;='
8:32'8 ' 7;<D:'C2' 3<94;'&9K 7'?:9D:':3'?;=' 8 ' 3B9D8'8:3'92=@<<3DV
89 2;<6'-@28;K 8:3' D986';?;=' 8 ' ;6';':3;B6';?;<.D 28<9C@89 2' ;24'
8 ' <3D39B3';'H;<<9= 2' &' ## 732,' 98:' 8:3' <3=8' &':9=' C<9H;43'
D:?;<8R';?;=' 8 'X 92'8:3' <32D:'& <D3=' C3& <3' ;<;H ==;' 2 8'5;83<'
8:;2'-@23' ",

D:?;<8R'=8;<834'&< 7' ;<D35 2;' 2'-@23' LK';'837 3=8'& <D34'
5997'8 ';?;98'& <';'4;6';8' ;<8 <35'92'8:3'D ;=8. 5;92'C@8' 2'8:3'
=9G8:':3'<3;D:34'8:3' ;==' &' <@D:';8';?: =3'& 8'8:3'< ;4=' &< 7'
H@;5;4;';24'&< 7' ;2<3=;'X 92,' 3<3':3'7388?98:' =989 2$
8:3' 23?=' &':9=' ; < ;D:' :=94' = <3;4' ;' @ ' 8:3' B; 36,' &'8:3'
C<3H;8';24'8:3' ' &'8:3'@ 5;24'8 B2=' ?3<3$:@<<692H'
& <?;<4'8 ': 54'8:3'43&953'C6'?:9D:'8:3':9H:.< ;4'&< 7' ;<D35 2;'
D597C=928 '8:3'@ 3<'D @28<6,' 8'8:3'7 7328'?:32'8:3'92B;43<='
7;<D:92H'92'8:3'7 =8'D;<353=='&;=:9 2'?3<3'7;>92H'8:39<'?;6'@ '8:3'
:955' 256'8:3'53B6' &' ;2<3=;'?;=' 92' =989 2,' :36'?3<3';'73<3'
:;24&@5'I##';8'7 =8';24'7;26'?3<3'43=898@83' &'7@=>38=;'
@8'&< 7'8:3'D B3<' &';'923.? 4'8:36'C 5456' 3234'&9<3'@ 2'8:3'
:3;4' &' D:?;<8R=' D 5@72,'J @< <9=34'8 '&924':97=35&;88;D>34'
8:3' <32D:'H323<;5' 43 5 634';'C;88;59 2';24'4< B3'8:3' '
C@8' &'8:39<' =989 2K 8:36'<389<34'92'H<3;8'49= <43<'@ '8:3' :955'
8 ?;<4=' ;2<3=;' D:?;<8R'& 55 ?34' 8:37' ?98:' D;@89 2' @243<'
8:3'943;'8:;8:36'7@=8'C3'8:3'B;2H@;<4' &';5;<H3<'& <D3';24'8:;8'
8:3<3' ?3<3' < C;C56'<3H@5;<'8< =92'=@ <8'&@<8:3<';5 2H'8:3'
43&953,' 2' 8:9=' :3' ?;=' ?< 2H' C@8' 8:3' <38<3;892H' ;2<3=;2='
<3D39B34'<392& <D37328=';'&3?'7953=' C3:924'8:3 5;D3' &'8:3'&9<=8'
=>9<79=:;' :36'?3<3'X 9234'C6'8:3'53B93=' &' ;2' 34 <';24' 8:3<'
B955;H3=' &'8:3' 3<' 5 C<3H;8' 7;<D:92H'& <?;<4'8 '8:3'= @24' &'
8:3'=92H53'4<@7'8:;8';?;=' 8 'C3'& @24'92'8:3'@ 5;24,' :3' 3;=;28='
32=D 2D34'8:37=35B3=' 92'8:3'< D>=' ;24' C@=:3=' 2' 398:3<'=943' &'8:3

M##M]‘ Q‘ ‘ ‘ ‘ I

< ;4‘ ;24‘ ;H;92‘ &&3<34‘ C;8853,‘ D:?;<8R‘ 8 >‘ 8:39<‘ =989 2‘ 74D:‘ 8 ‘ =3<9 @=56‘ 3G832434‘ ;‘5 2H‘ &< 28‘ &‘ 89<;9553@<=‘ ;H;92=8‘ 8:37‘ C@8‘ 494‘ 2 8‘ @=:‘ :9=‘ ;88;D>‘ : 73,‘ 2‘ 8:3<‘ C;24=‘ &‘ ‘ &< 7‘ 8:3‘ 49<3D89 2‘ &‘ H@;5;4;‘ C3H;2‘ 8 ‘ H;8:3<‘ < @24‘ :9=‘53&8‘&5;2>‘ ;24‘98‘=337 34‘8 ‘:97‘8:;8‘:3‘? @54‘= 2‘C3‘=@<< @2434‘ ;24‘D@8‘ &&‘&< 7‘ :9=‘5923‘ &‘D 7 7@29D;89 2=‘?98:‘ ;<D35 2;‘ 9=‘ <3H97328=‘ ?3<3‘<;?‘ ;24‘2 8‘ &‘8:3‘C3=8‘J@;5986$ 8:3‘ 3; 598;2=‘ ?:‘D 7 =34‘7 <3‘8:;2‘:;5&‘:9=‘& <D3‘ ;==34‘;24‘?98:‘<3;= 2‘;=‘ 8:3‘ <=8‘8< =‘92‘ @< 3,‘ 3‘:97=35&?;=‘;‘D;B;:6‘ &&9D3<‘?:‘ :;4‘ 23B3<‘ :354‘ 9243 324328‘ D 7 7;24‘ C3& <3‘ ;24‘ ?;=‘ ?: 556‘ @2B3<=34‘92‘ 7 @28;92‘?;<&;<3,‘ 3&53D892H‘8:;8‘8:3‘;&83<2 2‘?;=‘ &;<‘= 328‘8:;8‘:3‘?;=‘=8 5‘8?35B3‘7953=‘&< 7‘ 37<3=;‘;24‘8:;8‘8:3‘ ?: 53‘D @28<6.=943‘?;=‘ 2‘8:3‘7 B3‘;H;92=8‘:97‘:3‘<3= 5B34‘8 ‘ ;C;24 2‘:9=‘3G 34989 2,‘ 2=83;4‘ &‘ :7592H‘:9=‘& @<‘C;88;59 2=‘ @ 2‘8:3‘ ‘?:‘7@=8‘:;B3‘C332‘=D;883<34‘8 ‘8:3‘?924=‘ 9&‘;88;D>34‘C6‘=@D:‘=@ 3<9 <‘2@7C3<=‘:3‘4<3?‘C;D>‘& <734‘:9=‘ 732‘92‘;‘H<3;8‘=J@;<3‘?98:‘8:3‘D;B;5<6‘;24‘H@2=‘92‘8:3‘ 794453‘ ;24‘C3H;2‘;‘<38<3;8‘;D< ==‘8:3‘7 <3‘ 32‘ ;<8=‘ &‘8:3‘43&953,‘ :3‘ ;29;<4=‘& 55 ?34‘ <3==92H‘92‘8:3‘=D<332‘ &‘89<;9553@<=‘C6‘?:9D:‘ 8:3‘=J@;<3‘?;=‘D B3<34‘;24‘8;>92H‘3;=6‘=: 8=‘928‘8:3‘= 594‘7;==‘ C3:924‘8:37,‘ &83<‘=9G‘ 7953=‘ &‘7;<D:92H‘@243<‘&9<3‘ D:?;<8R=‘ ?9==‘;24‘ 8;59;2=‘?3<3‘H< ?92H‘= 73?:;8‘437 <;59R34‘&‘<2 8:92H‘ D @54‘C3‘7 <3‘:;<;==92H‘8‘<;?‘;24‘@2?95592H‘8< =‘8:;2‘=@D:‘ ;‘<38<3;85‘ 8‘5;=8‘8:36‘& @24‘8:39<‘?;6‘C5 D>34‘C6‘8:3‘B955;H3‘&‘ = ;<<;H@3<;‘?:3<3‘8:3‘92:;C98;28=‘C;<<9D;434‘8:3‘ =8<338=‘;24‘ 3234‘;‘: 8‘&9<3‘@ 2‘8:3‘&< 28‘&;D3‘&‘8:3‘=J@;<3,‘ 3392H‘:9=‘ 732‘:3=98;83‘;24‘C<3;>‘8:39<‘<;2>=‘ D:?;<8R,:;=8956‘C;43‘8:37‘ =D;883<‘<9H:8‘;24‘53&8‘;24‘ ;==‘< @24‘8:3‘B955;H3‘?98: @8‘;8837 8V 92H‘8 ‘=8 <7‘98,‘ :9=‘43B9D3‘=@DD33434‘C@8‘?:32‘8:3‘8? ‘:;5B3=‘ &‘8:3‘D 5@72‘<3@29834‘C36 24‘ = ;<<;H@3<;‘8:36‘?3<3‘92‘ =@D:‘ 49= <43<‘8:;8‘8:3<3‘?;=‘2 ‘73;2=‘ &‘=8 92H‘8:37,‘ :3‘?: 53‘ =8<3;734‘928‘ ;<8 <35‘92‘ ;‘D 2&@=34‘7;==‘;8‘29H:8&;55‘;&83<‘ ;‘<38<3;8‘?: =3‘92D94328=‘<3792 4‘8:3‘ 79598;<6‘<3;43<‘92‘ 3B3<6‘ 438;95‘ &‘8:3‘< @8‘ &‘8:3‘ <989=:‘8< =‘955‘8:3‘7&@*D:‘8 ‘ 3G92H8 2‘ 2‘8:3‘&9<=8‘4;6‘ &‘8:3‘ 54‘ 73<9D;2‘ ;<‘ &‘ ,

:32‘:3‘<3;D:34‘8:3‘ 5;92=‘ D:?;<8R‘?;=‘;C53‘8‘<389<3‘@2:;<734‘ 8 ‘ ;<D35 2;‘:;B92H‘=;B34‘8:<33‘ &‘:9=‘& @<‘H@2=‘;24‘5 =8‘2 ‘B3<6

‘ 23‘H@2‘?;=‘5 =8‘;&83<‘53;B92H‘ = ;<<;H@3<;‘C6‘8:3‘&;55‘ &‘;‘<9D>386‘ C<94H3‘B3<‘8:3‘ C<3<;‘0 <83D:3‘99,‘"I‘"LP,‘ 6‘;24‘8:3<‘ <32D:‘2;<<;8 <=‘ 4‘2 8‘ 73289 2‘8:9=‘5 ==,

=;<' ' " ' $ ' $ ' E:- /'9=

5;<H3' < <89 2' &':9=' 732,' @8':3' :;4'=@&&3<34'8:3'49=H<;D3' &' C392H'?<=834'C6'92&39 <'2@7C3<=' &'@249=D9 59234' 3;=;2896';24' C< @H:8':9=' 8< =' C;D>'92';'=8;83' &'437 <;59R;89 2'?:9D:'?;=' B3<6'49=D @<;H92H'8 ':8:3'<3=8' &':8:3'H;<<9= 2' &':8:3' ;8;5 29;2' D; 98;5,' @:3=73'92=83;4' &';>92H':97'8 ' 8 >' &@556';' < B34' &':9='<38<3;8' 2'8:3'H< @24'8:;8'9&':3':;4' @=:34' 2'& <' ;2<3=;' ;24' 3<94;' :3' ? @54' < C;C56':;B3' 5 =8':9=' ?: 53' C<9H;43,' 3;59R92H';8'5;=8'8:3'8<@3'=8<32H8:' &'8:3'92=@<<3D89 2';24'53;<2V 92H'8:;8'8:3' ';?;=' = @2492H'92'3B3<6'B955;H3';24'8:;8'8:3' 3;=;28<6'?3<3'&5 D>92H'8 H38:3<'92'8: @=;24='@:3=73'4383<V 79234'8'D 2D328<;83':9=' ?: 53'& <D3';24'=328' <43<='8' :;C<;2' 8';C;24 2':9=' /;532D9;2'3G 34989 2';24'<38@<2';8' 2D3'8' ;<D3V 5 2;,' 3'?;=' < C;C56'J@983'<9H:8'92':9=' <3= 5B3'8: @H:' :;C<;2A=' <38<3;8'?;=' 8:3' 4383<79292H'&;D8'8:;8'<@9234' 2D36A=' D;7 ;9H2' '92'8:3' < B92D3'= @8:' &.8:3' C< ,' :3' 7 3< <' :;4'=>38D:34' @8'8:3'?: 53' 5;2' &' 3<;89 2=' 2'&;5=3' <379=3=' ;24'?:32'8:3' 23?' 7 9598;<6'=98@;89 2' :;4' 43B35 34' 98=35&' 98' ? @54' :;B3' C332' ;C=@<4'& <':9=' 593@832;28=' 8 ' D;<<6' @8':9=' <9H92;5' <43<=' 92' C5924' ;24'=3<B953' C34932D3,

:;C<;2A=' D 5@72' :;4' <3;D:34' ;<<;H 2;' ?:32' 98' <3D39B34' @:3=73A=' 53883<=' &' <3D;55,' 8' :;4' =8;<834' 2' -@23' L' ;24' & @24'8:3'D ;=85;24'=89 ' J@938'8:3'92=@<<3D89 2' 2 8' :;B92H' 638' = <3;4' 4 B2?;<4=' &< 7'8:3' :955=,' 2' ;<<9B92H' ;8' ;<<;H 2;' :;C<;2'8 >' ==3==9 2' &'8:3'D98;435' ;24'9==@34' <43<=' 8 ' 8:3' 8? ' C;88;59 2=' &' 97 &32A=' ?9==' 3H97328' ?:9D:'& <734'8:3' H;<<9= 2' &'8:3' 5;D3' 8 ' <3 ;<3' 8 ' 7;<D:' ?98:' :97' ;H;92=8' /;532D9;,' :3' ?X==' &&9D3<=' =: ?34' 2 ';5;D<986'92'&;5592H'92'?98:' 8:9=' 5;2,' :36'?3<3'2 8';297;834'C6'8:3' ;8<9 89D'&@<6'?:9D:':;4' D;<<934';?;6'8:3'<3=8' &'8:3' ;29=:'<3H@5;<' 8< =' 928'8:3'92V =@<H328'D;7 ,' 2'8:3' 8:3<:;24'8:36'&358'2'328:@=9;=7';8'8:3' 943;' &'X 9292H'8:3' <32D:'92';2';88;D>' 2'8:39<'5;83'37 5 63<=,' :36'?3<3'43&3<<92H' C34932D3'8'8:3' <43<=' &'8:3' <32D:'H323<;5' 2' B;<9 @=' &@8953' 53;=' ?:32'8:3' 23?=' &' D:?;<8RA=' 43&3;8' ;8' <@D:' <3;D:34' ;<<;H 2;,' 9<3D834'8' <38@<2'92' :;=83' ;24'8' <3X 92' @:3=73'%323<;5' :;C<;2' 7;<D:34' &&' 2' -@23' " '53;B92H' 97 &32A=' 73<D32;<93=' C3:924S' 8:36'? @54'2 8'& 55 ?' :97' ;24' 43D5;<34'92'&;B @<' &'8:3'92=@<H328'-@28;' ;8' 3<94;'8:3'7 7328' 8:;8':9=' C;D>'?;=' 8@<234,' :3' <38<3;892H' <32D:'D 5@72':;4'8' C<@=:' ;=943'=3B3<;5' D 2=943<;C53' C;24=' &' ' ?:9D:'8<934' 8' ;<<3=8'98=' < H<3==' & <'8:3'D ;=85;24':;4'8;>32';<7=';&83<'8:3

D 7C;8 &' <@D:' ;24'98=' 53B93=' : 34'8 '8<3;8 :;C<;2' ;=' 8:39<'
D 7 ;8<9 8=' &'8:3'@ 5;24' :;4'8<3;834' D:?;<8R,' @8'8:3'8:<33'
B383<;2' <32D:' C;88;59 2=' ?3<3' &'8 @H:3<' 7;83<9;5' 8:;2' 8:3'
3; 598;2=' ;24' 8;59;2=' ?:' :;4'C332' < @834' 2'8:3'=9G8:' ;24'
=@DD3==&@556' D@8' 85939<' ?;6'C;D>'8 ' ;<D35 2;,' :36'?3<3' ;9434'C6'
8:3'@2?9=4 7' &'8:3'92=@<H328=' ?: '92=83;4' &'8<692H'8 ' 43&324'
8:3'49&&9D@58' 43&953' &' <4;5'D;73'4 (B2'928 '8:3' 5;92,' :32.8:36'
;88;D>34' :;C<;2' ;8' /3249A355';24' <C ='8:36'?3<3'D:;<H34'C6':9='
D;B;5<6';24'=D;883<34'8 '8:3'?924='?98:':3;B6'5 ==,'↑ :3' <32D:'
?:32' 8:3' ;D89 2=' ?3<3' B3<' =;D>34'?98:' 3B396' D9<D@7=8;2D3' &'
C<@8;5986';55'8:3'B955;H3=' ?:9D:'5;6';5 2H'8:39<' ;8:' 2'-@23' '
,8:36'H 8'928 '8 @D:'?98:' @:3=73A=' @8 =8=' ;24' 2'8:3'8?35&8:'
<3.3283<34' ;<D35 2;,

:3'?: 53' &'8:3'↑ <76' &'8:3' ;=83<2' 6<3233=' A' ?;=' 2 ?' <3V
@29834'@243<'98=' D 7 7;243<A=' :;24' ;24' @:3=73'8: @H:8' :97=35&'
=8< 2H' 32 @H:' 8 ' @29=:' 8:3' 3;=;28<6' &'8:3' 3<' 5 C<3H;8'
& <' 8:39<' B9D8 <6';8' <@D:,' 2'8:3'& @<83328:' :;C<;2' ?98:' :9='
?2' C<9H;43';24'8:3' ?9==';24' 8;59;2=' &' D:?;<8R' 7;<D:34'&< 7'
;<8 <35' 8 ';==;@58' 2D3' 7 <3'8:3' ;==' ?:9D:'8:3'@ 5;243<=' :;4'
43&32434' =' ?355' 39H:8'4;6=' C3& <3,' @8'8:3'? 4=';24'< D>=' &'
<@D:' ?3<3' 2 ?' 7;2234'C6' 7;26'8: @=;24=' &' ;';55'
328<;5' ;8;5 29;':;4'=328'98=' 53B93=' 8:98:3<';24'8:36'?3<3'=@ V
<834'C6' L##)'<3H@5;<=' &< 7' 3<94;';24'& @<' 93D3=' &';<89553<6,'
&83<' &33592H'8:3' =989 2';24'49<3D892H';H;92=8'98';8'53;=8' 23'
=3<9 @=' ;88;D>' :;C<;2' 4<3?' C;D>' ;24' <3&@=34' 8 ' <3==' 2'
8:3' ;D89 2 ;<32856' 92&5@32D34'C6'8:3' 7;29&3=8'<35@D8;2D3' &'
D:?;<8RA=' 8< =' 8 ';4B;2D3' 2 ' 53==' 8:;2'C6'8:3'=8<32H8:' &'8:3'
H< @24,' &83<'5 =92H'23;<56'L##'2932':3'<389<34'8 '8:3' 5;92';24'
7;<D:34'C;D>'8 ';<D35 2;'W-@23'],

@:3=73' :;4';' 7 <3' <3==92H' C@=923==' 92' :;24' 8:;2'8:3'
D:;=89=37328' &'8:3' 7 @28;9233<=' &'8:3' 3<' 5 C<3H;8,' 3'
:;4'2 ?'53;<28'C6'8:3'&;D8'8:;8'D @<93<=' &< 7' <;2D3':;4'D3;=34'
8 ';<<9B3'8:;8':9=' D 7 7@29D;89 2=' ?98:' 9H@3<;=';24' 3<' ;8;V
5 29;':;4'C332'D@8';24'98' ?;=';C= 5@8356'23D3==;<6'8:;8'8:36'
=: @54'C3'<3 3234,' :9=' ?;=' 8 ' < B3' ;':;<43<'8;=>'8:;2' :3'
97;H9234K' 8:3' ' ?3<3' 2 ?' @ ' 92,' 3B3<6' B;5536';=' &;<';='
8:3' <32D]' &< 2893<S' 8:36':;4'4<9B32'928 '8:3'D98;435' &' 9H@3<;='
8:3'?3;>'C;88;59 2' &'438;D:7328=' 8:;8';4'C332'53&8'8 ': 54'8:;8

* <'438;95=' =33' <83D593 '99,' "M' "" ';24' 6'9B,' #':?:';44=' 8:;8' <C ='
B'&@8' 9553' 38'<34;98'32' ' F / $ ' # # ' F' # 6 ' ' '6 '' 0^P

8 ?2 ; 24 = 73 &8:3C 543< = 9<98= ?3<3 &33592H 8:39< ?;6. 8:< @H:8:3 6<323;2<3D3==3=8 D 7732D3<;94= 2 @==955 2, @D: ;5;<7?;= &358 ;8 3< 9H2;2 8:;8 8:3 H323<;5 D 77;2492H 8:3 49=8<9D8:;4 C3H@2 8 ,D;55 @8 8:3 2;89 2;5 H@;<4= & <:3:;4 2 <3H@5;<= ;8 :9= 49= =;5 =;B3 ;&3?: @24<34 732 &438;95= ;24 438;D:7328= ?: ?3<3?;9892H 8 H & <?;<4 8 X 92 8:39< <3H97328= 92 @:3=73A= D < =, @8 ;55 8:9= ?;= @2>2 ?2 ;8 ;<D35 2; ; 24 98 ?;= ?98:B3<6 598853 D 2D3 89 2 &8:3 49&&9D@5893= C3& <3:97 8:;8 @:3=73<3= 5B34 8 7;<D: 2 %3< 2;;24 <3 32 8:3 7;92 <;4 8 <;2D3, 3 8 54 &&& <8:9= =3<B9D3 23 :;5& &8:3 92&;28<6 C;88;59 2= ?:9D: D 7 =34 :9= ;<76 8:3 8;59;2 49B9=9 2 &3DD:9 D 2=9=892H &8:3 C<9H;43= & D:?;<8R ;24 & 95 =3?98R 8:3 5;883< &?:9D: :;4 :98:3<8 <37 ;9234 92 H;<<9= 2 ;8 ;<D35 2; ;24 :;4 2 8 8;>32 ;<8 92 8:3 &@8953 ;88;D>= 2 8:3 43&953 & <@D:, 3 ;5= 8 > ?98: :97 23;<56 8:3 ?: 53 &:9= D;B;5<6 & @< <32D: ;24 8:<33 8;59;2 =J@;4< 2= & D@9<;==93<= ;24 D:;==3@<= ;24 ;C;883<6 &39H:8 H@2=, :9= H;B3 :97 ;& <794;C53 & <D3 & "##7 32 ;C @8 :;5& &8:3 8 8;5 =8<32H8: &:9= D < = ?:32 8:3 5 ==3= =@&&3<34 ;8 <@D: ;24 35=3?:3<3 ;<3 434@D834,

@:3=73 :;4<3= 5B34 8 7;<D: 2 %3< 2;C6 8:3 D 7 ;<;89B356 3;=6 < ;4 ;5 2H 8:3 =3;.D ;=8 <;8:3< 8:;2 C6 8:3 ;583<2;89B3 < @83 ?:9D: ;==3= &@<8:3< 925;24 C6 8:3 B;5536 &8:3 3= = ;24 8:3 8 ?2 & =8;5<9D:, B32 92 8:3 5 ?5;24 : ?3B3< :3 & @24 8:3 <3 ;<34 8 =3 :97, 8 8:3 D;=853 & 2H;8

<9H;43 & 95 =3?98RK

* $24 8;59;2 923 0$24 C;88,P ; ; ; L#
L8: E 0I<4 C;88,P ; ; ; M ,
□8C E 0 24 C;88,P ; ; ; M##N
$ II

<9H;43 & D:?;<8RK
=8 3; 598;2= 0 =8 ;24 $24 C;88=,P, ; "LL
=8 8;59;2 5 0 =8 C;88,P ; ; * "
0 92@= I## 732 5 =8 92 8:3 ;D89 2= ;8
<@D: 2 -@23 □ ;24 LP
$ NI

;B;5<6K
I<4 < B9=9 2;5 @9<;==93<= ; ; ; L#"
I<4 E'' :;==3@<= ; ;* ; L N
8;59;2 * ' /' * + ' ; ; ; U
$24 3; 598;2 E ; ; ; '
0 92@= 23 =J@;4< 2 53&8 ;8 ;<D35 2; ' =;6 $##P

<89553<6 732 & <39H:8 H@2= , , , , N#
N "NI

256 =9G 7953= @8=943 ;<D35 2; : 3 738 8:3 &9<=8 =?;<7 M ###
\ " ###=8< 2H,) :36 :;4 < D@<34 ; &3?H@2= ?:9D:8:36 :;4
7 @2834 = ;= 8 =?33 8:3 <;4 ;24 5;6 92 49= <43<56 7;==3=
;5 2H 8:3 D<3=8 &;<9=92H H< @24, @:3=73 ;7@=92H 8:37 92
&< 28 C6 ;&;5=3 ;988;D> =328 ;=8< 2H D 5@72 8 8@<2 8:39< <9H:8
&5;2>K =3392H 8:37=35B3= 59>356 8 C3, 32B35 34 8:3 34;28= &534
;&83 ;=: <8 =>9<79=: 92 ?:9D:8:36 =@&&3<34 D 2=943<;C53 5 ==,
@=:92H 2?;<4 @:3=73 ;<<9B34 8:;8 =;73 ;&83<2 2 ;8 8:3
5;<H3 32 8 B2 &;8;< ;= 5;D3 &$# ### =@5= H9B32 B3<8
8:3 7;2@&;D8@<3 &5 H5;==;24 D 88 2 H 4=, :3 @5;D3:;4
:;=8956 C;<<9D;434 8:3 @8538= &8:3 =8<338= ?98: D;<8=;24 953=
&&@<298@<3 ;24 49=D:;<H34 8? < 8:<33 D;22 2 ;H;92=8 8:3
; < ;D:92H 32376, @8 95 =3?98R= 8;59;2 C<9H;43 3;=956 C@<=8
8:< @H: 8:3 &33C53 43&32D3= ;24 8 > ;8;< C6 =8<7, 8=
;8837 8 ;8 <3=9=8;2D3 ?;= D 2=943<34 C6 @:3=73 8 X@=89&6 98=
=;D> ;24 :3 H<;2834 8:3 5@243< &8:3 8 ?2 8 :9= 732 ?:
256 7 B34 2 8:93 23G8 4;6 ;&83<:;B92H 8: < @H:56 < CC34 3B3<6
4?35592H &98= <8;C53 H 4= ;24 7@<43<34 ;D 2=943<;C53 2@7C3<
&8:3 92:;C98;28=, :3 <32D: ;<76 &;8;5 29;?;= 8:3 7 =8
,7 8536 ;24 @249=D9 59234 & <D3 &;55 8:3 97 3<9;5 : =8= 92 ;92
;24 & < 8:;8 <3;= 2 98 ?;= C6 &;< 8:3 7 =8 D<@35 ;24 C<@8;5 92 98=
C3:;B9 @< 8 8:3 2;89B3=?: :;4 2 8 ;= 638 X@=89&934 ;26 =@D:
8<3;8 7 328 C6 8:39< 7;223< &D 24@D892H 8:3 ?;<, 26 1&3< D986
?:9D: 8:36 =: ?34 &< 7 8:9= 8973 2?;<4 ?;= ;?355.43=3<B34
<3B32H3 & < ?:;8 8:36 :;4 =@&&3<34,
; 3;B92H ;8;< 2 8:3 39H:83328: @:3=73 ;<<9B34 C3& <3
%3< 2; 2 8:3 8?328938: ;&83< C@<292H 7 =8 &8:3 B955;H3= 2
8:3 < ;4 92 <3B32H3 & < 8:3 D 2=8;28 7 53=8;89 2 ?:9D: :3 =@&&3<34
&< 7 8:3 3 & @24 8:3 D986 5;D34 92 ;=8;83 &
43&32D3 = &;< ;= ?;= ==9C53 92 8:3 D;=3 &;2 54.&;=:9 234
& <8<3== D;5534 @ 2 8 =8;24 ;=93H3 ;8 832 4;6=K 2 89D3, :3<3
?;= ;= 7;55 <3H@5;< H;<<9= 2 8:3 <9=:<3H9 7328 &58 29; @243<
98= 8? 593@832;28.D 5 235= A 2 B;2 ;24 A ;56K C@8 8:9= D < =
256 D @2834 I #C;6 238=, 2 ;44989 2 8:3<3 ?3<3 ;&3?8<;9234
;<89553<6 732 ;24 8:3 ;<734 D989R32= &8:3 8 ?2 2 8 7 <3 8:;2
$ ### 92 ;55 & < %3< 2;:;4 C@8 L ### 92:;C98;28=, :3 5;D3
593= 2 398:3< =943 &8:3 =7;55 =8<3;7 &8:3 95;X@=8 ;C B3 98=
D 2&5@32D3 ?98: 8:3 <9B3< 3<, 2 8:3 = @8:C;2> 9= 8:3 7;92
;<8 &8:3 8 ?2 =8<;HH592H @ 8:3 =943 &;=833 :955 ?:9D: 9=
D< ?234 ;8 98= 3;=83<2 324 C6 ;2 ;2D9328 D98;435 >2 ?2 059>3 8: =3

?98:‘:9=‘ &5 3<K 8:36‘? @54‘:;B3‘C33<9‘?9=3<‘8 ‘;B 94‘;55‘23H 89;89 2=‘ \?98:‘=@D:‘;2‘3237 6,‘ <‘8:9=‘ ;<536‘?;=‘ 256‘92832434‘8 ‘D B3<‘ ;‘=3D 24‘39==;@58,‘ 3392H‘8:;8‘:3‘D @54‘2 8‘: 3‘8 ‘:;883<‘:9=‘ ?;6‘928 ‘8:3‘ 5;D3‘C6‘73;2=‘ &‘:9=‘59H:8‘&9354.;<89553<6‘ @:3=73‘ ?;=‘ <3 ;<92H‘;‘H<3;8‘3=D;5;43‘@243<‘D B3<‘ &‘8:3‘29H:8,‘ :3‘ 928‘?:9D:‘:3‘D: =3‘& <‘98‘?;=‘8:3‘C;=89 2‘ &‘ ;28;‘ 5;<;‘ 2‘ 8:3‘D3289%3‘ &‘8:3‘5 ?‘&< 28‘ &‘8:3‘ 3<D;4;5‘C36 24‘8:3‘ 2;,‘ 3‘ D 553D834‘ ;‘ J@;28986‘ &‘5;443<=‘&< 7‘8:3‘239H:C @<92H‘B955;H3=‘ ;:4‘8 54‘ &&‘& <‘8:3‘ ;==;@58‘8:3‘8:<33‘C;88;59 2=‘)&‘8:3‘C<9H;43‘ &‘ D:?;<8R,

8‘832‘ AD5 D> ‘8:3‘ 8;59;2=‘D<3 8‘@ ‘C323;8:‘8:3‘<;7 ;<8=‘ ?:3<3‘8:3‘D989R32=‘ 2‘H@;<4‘4‘2 8‘=337‘8 ‘:;B3‘>3 8‘;‘H 4‘5 >‘ @8‘ ;24‘4359B3<3D&‘8:39<‘ ;88;D>,‘ @8‘8:3=3‘<;?‘8< =‘7 B92H‘92‘ 8:3‘4;<>23==‘7;43‘7;26‘79=8;>3=K 8:3‘D:93&‘ 23‘?;=‘8:;8‘7;26‘ &‘8:3‘5;443<. ;<86‘?328‘;=8<;6‘;7 2H‘8:3‘?;83<.D @<=3=‘;24‘&9354.‘ ?;55=‘=‘8:;8‘8:3‘ <B9=9 2‘ &‘5;443<=‘ <B34‘92=@&&&9D9328,‘ :3‘ H;<<9= 2‘ &‘8:3‘C;=89 2‘: ?3B3<‘:;4‘C332‘8;>32‘D 7 538356‘C6‘ =@< <9=3‘;24‘ ;55 ?34‘8:3‘:3;4‘ &‘8:3‘D 5@72‘8 ‘3=D;5;43‘8:3‘ 8?3286.& 8‘?;55‘?98:‘2 ‘7 <3‘:924<;2D3‘8:;2‘;‘&3?‘7@=>38.=: 8=,‘ :3‘ 3; 598;G9‘ 5 235‘ 7C< =9‘;24‘8:353;492H‘&953=‘:;4‘;D8@ 56‘ 7 @2834‘;24‘4<9B32‘C;D>‘8:3‘D989R32=‘8 ‘8:3‘H <H3‘ &‘8:3‘C;=89 2‘ ?:32‘8:3<3‘ ;<<9B34‘<392& <D37328=‘;‘D 7 ;26‘ &‘8:3‘ 3H97328‘ &‘ 58 29;‘?:9D:‘D:;<H34‘?98:‘8:3‘C;6 238‘4< B3‘8:3‘ 8;59;2=‘ C;D>‘;24‘:@<534‘8:37‘ B3<‘8:3‘<;7 ;<8,‘ 2‘ <9=:‘593@832;28‘ : 7;=‘ ;H<;8:‘;24‘;‘ ;<735983‘&<9;<‘=39R34‘;24‘ B3<8@<234‘8:3‘ 5;443<=‘;8‘8:3‘D =8‘ &‘8:3‘59&3‘ &‘8:3‘& <73<,‘ :32‘8:3‘H;<<9= 2‘ C3H;2‘&9<92H‘4 ?2‘928‘8:3‘7;==‘ &‘;==;95;28=‘D< ?434‘;8‘8:3‘& 8‘ &‘8:3‘?;55‘;24‘8:3‘239H:C @<92H‘C;=89 2‘D 7 732D34‘8‘49=D:;<H3‘ ;‘&5;2>92H‘&9<3‘ &‘;<89553<6‘8:3‘ 8;59;2=‘C< >3‘;24‘&534,‘ ‘=3D 24‘ ;8837 8‘;8‘;2‘3=D;5;43‘7;43‘8?‘: @<=‘5;83<‘;8‘;2 8:3<‘C;=89 2‘ &;9534‘3B32‘7 <3‘5;7328;C56‘& <‘8:3‘H;<<9= 2‘1?3<3‘ 2‘8:3‘;53<8‘ ;24‘4383D834‘8:3‘;==;95;28=‘C3& <3‘8:36‘4<3?‘23;<‘8:3‘?;55=,

2B92D34‘8:;8‘:3‘?;=‘8 ‘?3;>‘8 ‘8;>3‘%3< 2;‘?98: @8‘=93H3.‘ ;<89553<6‘ @:3=73‘C< >3‘@ ‘:9=‘D;7 ‘;24‘&534‘9743<‘D B3<‘ &‘8:3‘ 29H:8‘7;<>92H‘:9=‘<38<3;8‘C6‘;‘8:9<4‘92==92D39%3‘;8837 8‘8 ‘ 32

‘ ;93<=;6=‘8:;8‘8:3‘;==;@58‘?;=‘4359B3<34‘;8‘=3B32‘92‘8:3‘3B3292H‘C3& <3‘ 4;<>‘09,‘ "PS‘C@8‘;55‘8:3‘ ;29=:‘;DD @28=‘= 3;>‘ &‘98‘;=‘:;B92H‘8;>32‘ 5;D3‘ 5 2H‘;&83<4;<>‘‘8: @H:‘C3& <3‘7942 9H:8‘0D&,‘ <83D:3‘ <3&9‘;24‘ 92;59‘ J@ 834‘C6‘8:3‘& <73<PS‘=‘4 3=‘ 6‘09B,‘ NMP‘?:‘&9G3=‘8:3‘: @<‘;=‘2‘C38?332‘ 2923‘;24‘83;,A

&' ;2' 6' ;24' 592=' 43' 36' C6' ;' =?33 92H' D: ;<H3 ' 8:36' ?3<3'
P@<=@34' ;D< ==' 8:3' 5;92 ' =8<9 34' J&' ;55' 8:39<' ;<89553<6 ' ;24' & <D34'
8 '8;>3' <3&@H3' 92' 8:39<' 54' =989 2=' ;5 2H' 8:3' 34H3' J&'8:3' 7 @28;92='
&' 28=3<<;8 ' ;&83<' 5 =92H' ;.D 2=943<;C53' 2@7C3<' &' 732,
3==' =9 DD3==&995 ?;=' ;2 8:3<' =8< >3' ;H;92=8' 8:3' 92=@<H328=' ?:9D:'
@C3=73' 3243;B @<34' 8 ' 43;5' &9B3' 4;6=' 5;83<,' %323<;5' :;C<;2'
?98:'8:3' 8;59;2' C<9H;43' 8:;8' :;4' C332' 53&8' ;8' ;8;< ';'<3H97328'
&' <32D:'D;B;5<6';24';'&9354.C;883<6'7 B34' @8' 8 'D53;<'8:3' :955='
;C B3' 8:3' D ;=8 ';24' 8 ' =?33 ' 8:3' B;5536' &'8:3' 3= =,' ;' 3' :;4'
C3& <3' :97' 8:3' ' &'8:3' <3H9 2=' ;C @8' /9D:' =8;5<9D:'
;24' ;28;' 5 7 ;'@243<' 9A;2D9=D ' 95;2=';' :;5&. ;6'593@832;28.'
D 5 235' ?:' :;4' C332' 5;D34';8' 8:39<' :3;4' C6' 8:3' 5 D;5' -@28;'
:;C<;2' & <D34' :9=' ?;6' & <' = 73' 49=8;2D3' 925;24' 8955' :3' <3;D:34'
%<;2 3<=' ;5?;6=' :;<;==34' C@8' 23B3<' =3<9 @=56' ;88;D>34' C6' 8:3'
92=@<H328=,' 95;2=' ?:' =:' ?34' ;55' 8:<' @H:' :9=' D;<33<' ;' <3;5'
H329@=.'& <' H@3<955;' ?;<&;<3' :;4' <43<34' :9=' 53B93=' 23B3<' 8 ' =8;24'
?:32' <3==34' C@8' 8 ' :;2H';C @8&8:3' 3237 6A=' 5923' &' 7;<D:' D@8' &&'
:9=' 9D>38=';24' =D @892H' ;<893=';24' &;55' @ 2' 8:3' C;HH;H3.8<;92'
?:9D:' 8<;9534' ;8' 8:3' <3;<' &' :9=' D 5@72,' :3=3' 8;D89D=' ?3<3'
3<&3D856' =@JD3==&@5K' :;B92H' <3;D:34' %<;2 3<=';&83<';' 7 =8' 8 95V
= 73' 7;<D:' :;C<;2'<3&@=34'8 ' @=:'&@<8:3<;7 2H'8:3' 7 @28;92='
8@<234' C;D>';24' <38<3;834' 8 ' ;8;< ';DD 7 ;2934' : 73' C6' 8:3'
' ?:' @<=@34':97'8 '8:3' B3<6' @8=>9<8=' &'8:3' 8 ?2';24'
D@8' &&':9=' =8<;HH53<=';24' 7;26' &':9=' C;HH;H3';297;5=' W-@56' Lh],
:3' 7 7328'8:;8'8:3' ;8;5;2'92=@<<3 89 2'H<3?'=3<9 @=' @:3=73'
:;4'=328'<3 3;834'; 3;5=' & <':35 '8 '8:3' 7 3< <K 8:3'5;24'< @83'
8 ' 3< 9H2;2'C392H'D@8':3';4'8 '@=3'=7;' 'B3==35=' ?:9D:' @8' @8'
8 '=3;';8' 29H:8'<9=>34' D; 8@<3' C6'8:3' 2H59=:'=:9 =' 5692H' '8:3'
D ;=8';24' ?:32' & <8@2;83' <3;D:34'8:3';<C @<=' &' 9 @<3' <'
<8./324<3='X@=8' C36 24'8:3' 6<3233=,' ; 53 2'5 >34'@ 2'
8:3' ;8;5 29;2'?;<';=';'B3<6'=7;55' 7;883<)C@8':3'?;=' &@ 6'<3= 5B34'
8:;8' @:3=73' 7@=8' C3' =@DD @<34,' DD <492H56':3'4383<7 9234'8 '
D 2D328<;83';'49B9=9 2';8' 3< 9H2;2'C@8':3'<3&@=34'8 ' ;55 8' 8 '
98';26' &':9=' B383<;2' <32D:'8< =,' 3'=?3 8'8 H38:3<'&< 7'8:3'
@8:3<2' 5 =';24' 9347 28';'7 =8':383< H323 @=' C 46' &' ###'
<' M ###' 732'3B32'? <=3'92'J@;5986'8:;2'8:3' 7 8536';<76'?:9D:'
:3' :;4' 328<@=834' 8 ' @:3=73,' :3' D 7 7;24' ?;=' 328<@=834.8 '
;' D; ;C53' &&9D3<,' %323<;5' 39553' 23' &'8:3' 7 3< <A=';943=.43.'
D;7 '?:' ?;=' 8 54' 8 ' ;4B;2D3';24'<3593B3' 9H@3<;=';&83<'?:9D:'
:3' ?;=' 8 ' =8<38D:' @8' :9=' :;24' 8 ' @:3=73' ?:' ? @54' @=:

M#M]' ;' ' ' -.G

C;88;59 2='';'D 7 ;26' &'8:3'$24' ?9==' 3H97328';24';<89553<67 32' 32 @H:'8 '=3<B3';'D @ 53' &'H@2=;' 98:'2 '7 <3'8:;2'8:3' @=D;2=' ;24'8:3' ?9==';53==';8:;2' N##'7 32'92';55':3'7;<D:34' 2' 9H@3<;=' 99'-@56' '49= 3<=92H' 2'8:3'?;6'= 7 3',C;24=' &' '?:'8<934' 8 ' =3':97';8'8:3' ;==;H3' &'8:3' @H;,' 3'8:<3?';'D 2B 6' 928 '8:3' 5;D3';24'=8<32H8:3234'98=,'H;<<9= 2'C@8'D @54'4 '2 '7 < ' & <';'8:3'D @28<6'C36 24' 9H@3<;='?;=,'@ '92';<7=';24':9='<;?' 8;59;2'<3D<@98='D @54':;8456'C3'>3 8'8 '8:39<)'D 5 @<=,' 24334':3' ?;='& <D34'8 '7;>3'8:37'7;<D:'92'=594'D 5@7 2='?:323B3<':3' 2 7 B34'8:3&2'& <'?:32' <43<34'8 '43 5 6)8:36';5?;6='&355'928' 49= <43<';24'8<934'8 '7;>3' &&'8 '8:3'<3;< ,

@8'C6'-@56' ' 39 3':;4'C3H@2'8 '<3D39B3'7;26' &'8:3'4<;&8='; 24'438;D:7328='?:9D:'8:3' 7 3< <'?;=' @<92H'928 ' 3< 9H2;2' ;24':;B92H'2 ?'8:<33' <'& @<'8: @=;24'732'49= =;C53':3'<3= 5B34' 8 '=8<9>3';'C5 ?';8' =;='8:3'=7 8555 =3; <8'8 <B2'?:9D:'C5 D>='8:3' D ;=8.X ;4'&9. <;' 3< 9H2;2'8 ' ;<D35 2;,' ;<D:92H'8:< @H:'8:3' 5;92=' &'8:3' 7 @<4;2 ':3'<3;D:34':9=' CX3D89B3'&92'92=9H29&9D;28' 5;D3'?98:';'495; 94;834' @83<'328<32D:7328';24';'D98;435' &'=7 3' =7;55'=8<32H8:,' 8'?;=' 43&32434'C6'2 '7 <3'8:;2'L##' 5B ' ;24':;4'C@8'&9B3'H@2='2'98='5;24.&< 28,' @8'8:3'598853'H;<<9= 2' =:?34';'C 54'&;D3');24',?:32' 39553' < D33434'8 '92B3=8' =;='':3' & @24':97=,35&';88;D>34'&9) 7'8:3* <3;<'C6'& @<' <'&9B3'8: @=;24' '53B934'C6' 2'-@;2' 5;< ='';'<389<34'92&;28<6'D; 8;92' ?:'';4'D;5534'8 ';<7='8:3' 3;=;28<6' &'8:3'D ;=8';' :36'C3=38' 8:3'C3=93H3<='&93<D356'8:;8' 39553'<3= 5B34'8 ';C;24 2'8:3'92B3=8V 7328';'4383<792;89 2'?:9D:'?;='==9=834'C6'8:3'=9H:8' &';' <989=:' 5923. &.C;8853':9 '5;2492H' 7;<923='8 '=8<32H8:32'8:3'H;<<9= 2,' DD <492H56':3'D@8':9='?;6'C;D>'8 '9H@3<;=. 9<'8:3'8?35&8:' :;<;==34';55'8:3'?;6'C6'8:3'C;24=' &' 5;< ='?:'>95534' <'8 >' 2 '53==';8:;2'$##' &':9='732'`;' =;='?;='8 '43&6'D; 8@<3'& <'= 73' '7 28:='7 <3'& <' 39553A='23G8'3&& <8'?;='C6':9='7;=83<A='49<3D89 2' 43B 834'8 ';'7 <3'97 <8;28' CX3D8 8:3'D53;<92H' &'8:3'H<3;8'< ;4' &< 7' 3< 9H2;2'8 ' ;<D35 2;';24'8:3' 3292H'@ ' &'D 7 7@29D;89 2='?98:' @:3=73,

' 6'9B,' N NN,' * :3' 6 $' &' L'H@2=,' ; 8;92' ,' ,' 8?;6,'
" [' 6'9B,' N",';)' A

<3H@5;<8< =?3<3C3H92292H8 ; 3;< 2 8:3 =D323 92 D 2=943<;C53 59@7C3<= ;24 8:3 49<3D89 2 &8:3 7 9598;<6 <3= @<D3= &;8;5 29;)?;=;C @8 8 C3 D 2&9434 8 8:39< H323<;5=, :3 D:;2H3 ?;=2 8 ;55 &<8:3 C3883<K 4@<92H8:3 ?: 53 =8<@HH53 8:3 ;29;<4=:?34 8:37=35B3=;479<;C53 92=@<H328=C@8 9249&&3<328=5493<=,T &83< 23 7 <3=:<8 C@8 C<9559;28 3<9 4 &=@DD3==8:3C;5;2D3 &&<8@23?;=; C @8 8 8@<2;H;92=8 8:3 ;8;5;2=;24,;5 2H =3<93= &49=;=83<=?;=8 8<6 C@8 23B3<8 =@C4@3 8:39< 924 7 98;C53 ;24 3<=3B3<92H D &5<;H3,

3 :;B3 ;5<3;46 =:?2 8:;8 8:3 256 C 46 &<3H@5;<8< =;B;95;C53 &<8:3 =@DD 7* &;8;5 29;?;=8:3D<=&###732 ?:9D:5;6 92 8:3 ;53;<9D =5;24=, :;8 8:3=3 8:9<8332 C;88;59 2= &B383<;2=::;4 2 8 638 C332 8:<?2;=:<3 92 8:3 <92D9 ;5986 ?;= 7;9256 4@3 8 8:3 B3<.D;@89 2 &8:3 ;H34 %323<;5 /9B3=8:3 ;8;92.%323<;5 ;8 ;57;)8 ?:7 8:3 D:;<H3 &8:3 H;<<9= 2= &;X <D;;24 92 <D;?;=D 7 7 98834 Ø 3:;4;T433 56 X& 834 943;8:;8 9& :3 53&8 <8 ;:2 @2H@;<434 8:3 2H59=:? @54 &924 =73 3GD@=3 &< 2D3 7 <3 7 ;>92H 8:37=35B3=7;=83<= &8:;8 ;2D9328 #8< 2H: 54 ?:3<3 8:3 29 2 -;D>::;4 ?;B34 &<8:3 H<3;83< ;<8 &8:3 39H:83328:D328@<6, B32 8:3 8<;2= ;<328 :23=86 &<4 92H? 4 8:3 B383<;2;479<;5 &8:3 34983<V <;23;2 &5338.D @54 2 8 <3;==@<3 :97, 8 ?;= 256 ?:32 =8< 2H <3==@<3 ?;= ;5934 8 :97 C6 :9= =3D 24 92 D 7 7 ;24 8:3 ;<J@9= 435 ;5;D9 H B3<2 < &92 <D; ;24 ?:32 :3 :;4 <3D39B34 8:3 7 =8 3G 59D98, 534H3= &< 7 92H? 4 D 2D3<292H 8:3 49=9283<3=834 B93?= &%<3;8 <98;92 8:;8 :3 D 2=32834 8 49=H;79=:: <8 ;: 2, 9= 7924 ?;= 256 &92;556 7;43 @ ?:32 8:3 <;H 23=3 ;24 ;8;5;2 C;88;59 2= &:9= ;<7 6 C@<=8 2@8 928 32 7 @8926 8:<3;83292H8 =39R3=:9 92H ;24 8<;2= <8 8:37=35B3= 8 8:3 7 925;24 ?98: @8 :9= 53;B3 9& ;26 &@<8:3< 435;6 ?;= 7;43 W-@23 I#], &<829H:8 5;83< /9B3= 3<7 98834 35 ;5;D9 ?98:8:3 H<3;83< ;<8 &8:3 ;53;<9D H;<<9= 2=8 =38=;95& <8:3=3;8 &?;<, :3 <;H 23=3 <3H9 7 328 5;2434 23;< <8 =; ;24 7;<D:34 & <;<;H ==;K C@8 8:3 C@5> &8:3 3G 34989 2;<6 & <D3 23;<56 ###=8< 2H ?;= @8 ;=:92 ;&&;9<= 92 ,8:3 <92D9 ;5986 ::4 8;>32 ;23?8@<2,

398:3< <399 2 < <83D:3 73289 2= 8:38< @C53 D;@=34 C6 8:9= 89<3= 73 54 7;2 8 ?: 7 8:3 435;6 92 =@DD @<92H ;8;5 29;?;= 4@3,, < 8:3 23H 89;89 2= ?98: :97 =33 <4 5592H? 4A= D <<3= 2432D3 >H 99, $" $"$P ;24 6 09B, M P,

M#M]' ' ' ' % ' I$

?;9892H'& <'43&92983'23?=' &' 39553,' 8'5;=8':3'7;43'@ ':9=' 79<X4'K
89B'<@83=' 7338';8' <32'8:3'7;92' '&< 7' ;<D35 2;'8'
%3< 2;'B9;' <43<;';24';'D<==.< ;4'?:9D:'=33>=' 8:3'=;73'324',C6';'438 @<'8:< @H:'8:3' 7;55':9 .& <8<3==' &' =8;5<9D:',';' :3'
8:<33'C;88;59 2=' &'% @54A=' C<9H;43'?3<3'=328'C6'8:9=' 5;883<' ;8:'
?98:' <43<=' 8' 3243;B @<' 8' =39R3'8:3' 5;D3'9&'8:36'D @54,' :3'
7;92'D 5@72' ?98:'8:3'C;883<92H.8<;92' & 55 ?34'8:3':9H:.< ;4,'
% @5;=' & @24' =8& 9D:'8' =8< 2H'& <'::2K 98' ?;=' H;<<9= 234'
C6' ##' B ' @243<' ;2@35' A @559B;2' ;'9D; 8;92' &'8:3'
3H97328'H&' 58 29;'?:'H;55;2856':354'8:39<' ?2';H;92=8';2'
;8837 8';8'3=D;5;43,' :3' <32D:'C<9H;493<'8:3<3@ 2';C 4 234'
8:3';88;D>'D< ==34}'8:3' 7 @28;92=' ;24'X 9234':9=' D:93&' C3& <3'
%3< 2;' 2'-@56'$$,' @:3=73'73;2?:953';;4'C332';;<;==34'& <'
8:<33'4;6=' C6'8:3' ' &' 95;2=';24'8: @H:':3';5?;6=
4< B3'8:37' &&'92'8:3'324';;4'5 =8' 7@D:' &':9=' C;HH;H3';24';2'
; <3D9;C53'2@7C3<' &'732'"C3& <3':3'<3;D:34'8:3'C;2>=' &'8:3'
3<,' 2'8:3'4;6';&83<':3'?;=' <3X 9234'C6'% @5;=':3'& <D34'8:3'
;==;H3' &'8:;8'<9B3<';24'8 >' =8'C3& <3'%3< 2;' 2'8:3'23G8'
7 <292H'W-@56'$Lh]':3'?;=' <3X 9D34'8 ' 7338'?98:'8:3'B;2H@;<4'
&' 39553A=' 49B9=9 2'43=D32492H'&< 7'8:3'2 <8:,' :;8'H323<;5':;4'
=8;<834'&< 7' 9H@3<;=' 8? ' 4;6=' C3& <3'?98:' ;55'8:3 &<;D89 2=' &':9=
7 8536'& <D3'8:;8':;4'<3;D:34'8:H'&< 28'8?,' @=D;2'C;88;59 2= '
8:3' ?9==' &< 7' 8:3' /;5;9=' 8:<33' <32D:' ' ' '
8:3'8? ' T < B9=9 2;5' ;88;59 2=' &' 3< 9H2;2A';24'= 73' 8:3<'
97 < B9=34'@298=',?98:';'8 8;5'A=8<32H8:' &'= 73'N ##' 732,' 3'
3=8;C59=:34':9=':3;4'J@;<83<=';8' @3283' ;6<8'8:3'2 <8:' &'8:3'
D986' 2'8:3'<9H:8'C;2>' &'8:3' 3<'?:953' @:3=73' 5-D34':9=';8'
;28;' @H329;' 2,'8:3'53&8'C;2>,' :3<3'?3<3'H 4';24'3;=6'
D 7 7@29D;89 2=' C38?332'8:37'C6'73;2=' &'8? }'& <4=';24'8:3'
C<94H3' &' ;58';'598853'&@<8:3<'&< 7'%3< 2;A?;=';5='B;95;C53,
:9<8332'8: @=;24'73:'=337 34'32 @H:'8'7>3';2'324' &';2' 54.'
&;=:9 234'& <8<3==' 59>3'%3< 2;':354'C6';'H;<<9= 2'?:9D:'4 ?2'8'
8:3'&9<=8'4;6' &'8:3'=93H3'D @2834'2'7 <3'8:;2'L##'<3H@5;<'8< =
1 8:;8';73' <9=:'<3H97328' &' 58 29;'?:9D:':;4'=8 4' @8';H;92=8'
@:3=73A=' &9<=8';88;D>'92'-@23,' 8'?;=' & <8@2;83'& <'8:3'43&3243<=
8:;8';8'8:3'B3<6'7 7328' &'8:3';<<9B;5' &'8:3' <32D:'8:36'<3D39B34'
;' ?3<&@5'<392& <D37328,' :3'59H:8'92&;28<6'<3H97328'2;734'8:3'
$24'/5@2833<=' &' ;<D35 2;' I##'=8< 2H'3283<34'8:3'D986' 2'8:3'
29H:8' &'-@56'$$' =59 92H'C38?332'8:3':3;4=' &' @:3=73A=';24
* 8' 2'8:3'8?3286.&9&8:';=' ;93<=;6=09,'MIP'& 55 ?92H';;<32856'8:3

I $N‘ ‘ %% ‘ ‘ ‘ W @ ,‘

39 3 ‘ D 5@7 2=,‘ F : 9=‘ D < =‘ : ; 4‘ & <7 34‘ ; <8‘ &‘ 8 : 3‘ H ; <<9= 2‘ &‘ 92 <D ; K 92=83 ; 4‘ &‘ C392H‘ 5 ; 2434‘ ; 8‘ ; <<; H 2 ;‘ ?98 :‘ 8 : 3‘ <3=8‘ &‘ 35‘ ; 5 ; D9 A=‘ 8< =‘ 98‘ ? ; =‘ 4< 34‘ ; 8‘ ; 2‘ 359@‘ 8 : 3‘ 23 ; <3=8‘ <8‘ 2‘ 8 : 3‘ D ; =8‘ 8 ‘ %3< 2 ;‘ ‘ ; 24‘ : ; 4‘ X@=8‘ 897 3‘ 8 ‘ <3 ; D :‘ 8 : ; 8‘ 5 ; D3‘ C3& <3‘ 98=‘ 92B3=8 7 328‘ ? ; =‘ D 7 53834,

@ : 3=7 3‘ : ; 4‘ <3= 5B34\‘ 8 ‘ ; B 94‘ & <‘ 8 : 3‘ &@8@<3J 8 : 3‘ &<@9853==‘ ; 883 7 8=‘ ; 8‘ 3=D ; 5 ; 43‘ ? : 9D :‘ : ; 4‘ D =8‘ : 97‘ = ‘ 7 ; 26‘ 732‘ 4@<92H‘ : 9=‘ &9<=8‘ =93H3‘ &‘ %3< 2 ;‘ ‘ ; 24‘ 8 ‘ < D334‘ C6‘ 8 : 3‘ <3H@5 ;‘ <@53=‘ &‘ 59 <.‘ D389D=,‘ 3‘ : ; 4‘ ?98 :‘ 97‘ ;‘ C ; 883<92H.8< ; 92.7 <3‘ 8 : ; 2‘ =@&&9D328‘ 8 ‘ ?<3D>‘ 8 : 3‘ ; 2D9328‘ ? ; 55=‘ &‘ 8 : 3‘ D986K‘ ; DD <492H56‘ : 3‘ 3234‘ ;‘ =3D 24 ; <6*‘ ; 88 ; D>‘ 2‘ 8 : 3‘ 5 ?3<‘ 8 B2‘ 2‘ 8 : 3‘ 53&8‘ &‘ 8 : 3‘ 2 ;)C@8‘ 8@<234‘ 8 : 3‘ H<3 ; 83<‘ ; <8‘ &‘ : 9=‘ ; 883289 2‘ 8 A8 : 3‘ D98 ; 435‘ &‘ 2XX99&D : ,‘ &‘ 8 : 9=‘ ? <>‘ ? : 9D :‘ &< 7‘ 98=‘ 5 &86‘ : 9 ‘ D 7 7 ; 24=‘ 8 : 3‘ ? : 53‘ D986‘ ?3<3‘ 2D3‘ 7 ; =83<34‘ 8 : 3‘ 5 ; D3‘ D @54‘ 2 8‘ : 54‘ @8‘ & <‘ ;‘ 4 ; 6‘ 5 2H3<,‘ 6‘ 8 : 9=‘ ; <<; 2H3 7 328‘ 8 : 3‘ D : ; <H3‘ &‘ 8 : 3‘ 7 ; 92‘ ; 88 ; D>‘ &355‘ 8 ‘ 39553‘ ; 24‘ @ : 3=7 3‘ : 97 =35&‘ @243<8 >‘ 256‘ 8 : 3‘ 437 2=8<; 89 2‘ ; H ; 92=8‘ 8 : 3‘ 3<D ; 4 ; 5,‘ : 3‘ <32D :‘ C3H ; 2‘ C6‘ 3=8 ; C59=: 92H‘ 8 : 37 =35B3=‘ 2‘ 8 : 3‘ 5 ?3<‘ 3=‘ &‘ 8 : 3‘ 8 ; C535 ; 24‘ &‘ ? : 9D :‘ 2X@9D :‘ DD@ 93=‘ 8 : 3‘ D@57 92 ; 892H‘ 928,‘ : 36‘ & @24‘ =: 3583<‘ 92‘ 8 : <33‘ <@9234‘ 8 ?3<=‘ ? : 9D :‘ 8 : 3‘ H ; <<9= 2‘ ? ; =‘ 8 ‘ ?3 ; >‘ 8 ‘ DD@ 6‘ ; 24‘ <; 9=34‘ 23 ; <‘ 8 : 37‘ 8 : <33‘ C ; 883<93=‘ ?98 :‘ =9G‘ : 3 ; B6‘ H@2=‘ ; 24‘ 8? ‘ : ?98R3<=‘ ? : 9D :‘ C ; 883<34‘ 8 : 3‘ D98 ; 435‘ ; 24‘ ; 5= ‘ 5 ; 634‘ @ 2‘ D3<8 ; 92‘ ; <8=‘ &‘ 8 : 3‘ 8 ?2‘ ? ; 55 23 ; <‘ 8 : 3‘ H ; 83‘ &‘ ; 2‘ 34< ,‘ : 3‘ C ; 883<93=‘ 92‘ @ : 3=7 3A=‘ =3D89 2‘ &‘ 8 : 3‘ =93H3.5923=‘ D 2=9=834‘ 256‘ &‘ 7 <8 ; <=‘ ; 24‘ : ?98R3<=‘ ? : 9D :‘ = : 35534‘ ; 24‘ =3B3< ; 5‘ 897 3=‘ =38‘ &9<3‘ 8 ‘ 8 : 3‘ 3<D ; 4 ; 5‘ C@8‘ D @54‘ 7 ; >3‘ 2 ‘ ; 883 7 8‘ 8 ‘ 32‘ C<3 ; D : 3=‘ 92‘ 98=‘ ? ; 55=,

: 3‘ =93H3. ; < ; D : 3=‘ &‘ 8 : 3‘ <32D :‘ C3& <3‘ %3< 2 ;‘ ?3<3‘ D 2V 4@D834‘ ,?98 :‘ ; 2‘ ; =8 29= : 92H‘ =5 ?23==K 98‘ ? ; =‘ 2 8‘ 8955‘ =9G8332‘ 4 ; 6=‘ ; &83<‘ 8 : 36‘ : =94‘ 3=8 ; C59=: 34‘ 8 : 37 =35B3=‘ 2‘ 8 : 3‘ =5 3=‘ < @24‘ 2.‘ X@9D : ‘ 8 : ; 8‘ 8 : 36‘ C3H ; 2‘ 8 ‘ C ; 883<‘ 98‘ 92‘ ;‘ =3<9 @=‘ & ; = : 9 2‘ W @H ,‘ $] ,‘ : 9=‘ 435 ; 6‘ ? ; =‘ ; <856‘ 4@3‘ 8 ‘ 8 : 3‘ =833 23==‘ &‘ 8 : 3‘ H< @24‘ @ ‘ ? : 9D :‘ 8 : 3‘ H@2=‘ : ; 4‘ 8 ‘ C3‘ 4< ; HH34‘ ‘ ; <856‘ 8 ‘ 8 : 3‘ 23D3==986‘ & <‘ =32492H‘ 8 ‘ 9H@3< ; =‘ & <‘ 3G8< ; ‘ ; <89553<6‘ 7 ; 83<9 ; 5‘ ? : 9D :‘ D @54‘ 256‘ C3‘ C< @H : 8‘ =5 ?56‘ ; 24‘ @243<‘ : 3 ; B6‘ 3=D <8‘ 8 ‘ 8 : 3‘ C ; 2>=‘ &‘ 8 : 3‘ 3<,‘ @8‘ @ : 3=7 3A=‘ =5 ; D>23==‘ ; 24‘ 8 : 3‘ ? ; 28‘ &‘ =>955‘ 49= 5 ; 634‘ C6‘ : 9=‘ 32H9233<* &&9D3<=‘ ?3<3‘ <3= 2=9C53‘ & <‘ 8 : 3‘ H<3 ; 83<‘ <89 2‘ &‘ 8 : 3‘ 435 ; 6,‘ <3 B3<‘ 8 : 3‘ 92B3=8 7 328‘ &‘ %3< 2 ;‘ ? ; =‘ ‘ C ; 456‘ 7 ; 2 ; H34‘ 8 : ; 8‘ 2 8‘ 256‘ 494‘ 8 : 3‘ H ; <<9= 2‘ >33 ‘ @ ‘ ;‘ <3H@5 ;‘ <‘ D 7 7 @29D ; 89 2 4 ; 83=‘ B32‘ C6‘ ; C ; 23=,‘ ‘ : ; B3‘ & 55 ?34‘ <83D :3‘ : 3<3‘ ;‘ =‘ : 9=‘ =3 ; <D :‘ 928‘ ‘ 897 3=‘ ; 24‘ =3 ; = 2=‘ =337=‘ 7 <3‘ D ; <3&@5 8 : ; 2‘ 8 : ; 8‘ &‘ ; 26‘ 8 : 3<‘ ; @8 : <986,

M##M] % % / % M$

;8 29H:8 ?98: 8:3 D:93&= &8:3 ?: 5;6 @8 2 8:3 :955= 8 8:3 ?3=8 :@8 D 2B 6= <3 3;83456 53&8 ;24 3283<34 8:3 8 ?2 92 8:3 4;<> ?98: @8 7 33892H ; =92H53 <32D: 9D>38 < ;8< 5,

:9= 435;6 & ;& <829H:8 92 <3==92H 8:3 ;8839D> 2 %3< 2; 534 8 8? 97 <8;28 <3=@58=, :3 &9<=8 ?;= 8:;8 8:3 23?= &8:3 D; 98@5;89 2 & ;6532 <3;D:34 C 8: D;7 = < 4@D92H H<;B3 49=V D @<;H3 7 328 92 8:3 23 ;24 ; 49= =989 2 & <C 54 ;D89 2 92 8:3 8:3<, :3 =3D 24 ?;= 8:;8 45 ;5;D9 ;24 8:3 = &< 7 92 <D; :;4 89 7 3 H<;2834 8 8:3 7 <3 ;<3 & <9283<&3<32D3 92 ;, 8:3 =93H3, , :3 7;<J@9= :;4 5;2434,;8 ;<<;H 2; 2 -@56 $I ?98: ;55 :9= 49B9=9 2 =;B3 8:3)<3H9 7 328 =328 8 8, 359@ ;24 8:3 <;H 23=3 C;88;59 2 ?:9D: :;4 C332 49<3D834 2 <8 =;, 7 V 7 349;8356 2 :9= ;<<9B;5 8:3 92=@<<3D89 2;<6 -@28; & ;8;5 29; 8<;2=&3<<34 98=35&&< 7 3<94; 8 ;<<;H 2; ;24 353D834 35 ;5;D9 ; 8;92.%323<;5 &8:3 <92D9 ;:86, :@=; 953;5 D328<;5 ;@8: <986 ?;= 3=8;C59=:34 92 8:3 < B92D3 ;24 ; =92H53 7 9598;<6 49<3D89 2. D @54 ;8 5;=8 C3 H9B32 8 98= ;<7 93H, :3 23((;8;92.%323<;5 ,?;= ?355.92832 89 234 ;24 &@55 & ;8<9 89=7 C@8 2 H<3;8 =8<;83H9=8 9= 5;2 ?;= 8 <3== ;<D35 2; ?98: 8:3 C@5> & :9= <3H@5;< & <D3=A = 8:;8 3DD:9 7 9H:8 C3 D 7 35534 8 D;55 & <92=8;28 :35 &< 7 @:3=7 3 ?:953 ; =7;55 D 5@7 2 @243< 8:3 243 43 ;54;H@3= ?;= 8 7;<D: 2 %3< 2; 2 8 = 7 @D: ?98: 8:3 : 3 &<;9=92H 8:3 =93H3 ;= 8 ;94 8:3 &8:3 7 @<4;7 92 :;<;==92H 8:3 92B3=892H & <D3 ;24 8:< ?92H =@DD @<=928 8:3 D986

DD <492H56 8:3 7 ;92 C 46 & 35 ;5;D9 A=;<7 6 8:3 <3H9 7 328= & <9; %<;2;4; ;24 <C 2 ?98: 97 &32A= 8? ?9== C;8V 8;59 2= &< 7 ;<<;H 2; 7 ;<D:34 99 8:3 5 C<3H;8 4< B3 92 3DD:9A= @8 =8= ;24 D 2&9234 :97 8 8:3 97 7 349;83 32B9< 2= & ;<D35 2;, :3 D;73 8 H9B3 :35 92 8: @=;24= ;24 ;D <4 2 &92B3=8 7 328 ?;= 3=8;C59=:34 ;8 ;B3<6 =: <8 49=8;2D3 &< 7 8:3 H<3;8 D986, 2 8:3 =3;.=943 <4 D:<;23 ?98: 8:3 ! ;24 + 8 &<9H;83= >3 8 @ ; =8<9D8 C5 D>;43 = 8:;8 3DD:9 ?98: 9=92=@&&9D9328 ;24 2 8 8 8<@=8? <8:6 H;<<9= 2 &I ## ?9== ;24 8;59;2 8< = ?;= 92 ; 7 =8 @2D 7& <8;C53 =989 2, &98: :;4 2 8 C332 8:;8 ;<D35 2; ?;= D 7 538356 D 7 V 7 ;2434)C6 8:3 97 <3H2;C53 D98;435 & 2X@9D: :3 N @54 2 8

 5592H? 4 >+ ! 99, $ D;55=:97 *;;&;8 @2?93546 7;<J@3== ?: 9&:9= <92D9 53= ;<3 H 4 :;= ; B3<6 59 7 9834 ;C95986,A

* < 35 ;5;D9 A= 9283289 2= =33 :9= <43<= 8 ;54;H@3= J@ 834 C6 <83DC3 099, N$$P,

% / % M$"

C6 8 : 3 53B93= & 95 ; 2= 8): 7 8 : 3 ? : 53 49=8<9D8 ? ;= &; 7 959 ; <,
932 : 3 <3 ; D : 34 8 : 3 =3 ; 8 ; 5H< ; 8 : 3 & @24 8 : ; 8 : 9= 8< @*C53=
?3<3 256 H< ?92H ? <=3, : 3 : @2H 2 : 9= <9H : 8 &5 ; 2> ?
: 953 <4 D : < ; 23A= &<9H ; 83 8 : 3 !@ & 55 ?34 : 97 2 8 : 3
53&8 : ; 24 H9B92H : 97 ; C< ; 4=943 ? : 323B3< : 9= 7 ; <D : 5 ; 6 ? 98 : 92
D ; 22 2.= : 8 &8 : 3C3 ; D : , <3 B3< 8 : 3 3 ; = ; 28= : ; 4 C332 D@8892H
; 24 C5 ; =892H ; ? ; 6 8 : 3 < ; 4 @243< D : < ; 23A= 49<3D89 2 ; 24 ; 8
3 ; D : 928 ? : 3<3 23 &8 : 3=3 C=8<@D89 2= : ; 4 C332 7 ; 43 98 ? ;=
23&3== ; <6 8 4 < ; H 8 : 3 H@2= ; 24 ? ; H 2= &8 : 3 D 5@ 7 2 . ; D< ==; 5 7 =8
97 ; == ; C53 : 955.=943= 92492H 8 : ; 8 : 3 ? ;= 7 ; >92H 2 ; <3D9 ; C53
< H<3== ; 24 8 : ; 8 : 9= 732 ?3<3 H< ?92H @883<56 437 <; 59R34 @.
: 3= 73 ; 8 5 ; =8 8 > ; 43= 3<; 83 =83 ; 3 C53?@ : 9= ; 7 7 @2989 2
C@<28 : 9= C ; HH ; H3 D ; =8 : 9= &9354.H@2= 928 8 : 3 =3 ; ; 24 &534 ; ? ; 6
C6 : 955.8< ; D>= ; <34535 ?98 : 8 : 3 = : <3, &83<5 2H =>9< 79= : 92H ?98 :
8 : 3 : 3 <3 ; D : 34 2H ; 8 ? : 3<3 3DD : 9 D ; 73 @8 8 : 9= ; 94
?98 : ### 732, ; 24 ; C ; 883<6 ; 8 : ; 8 D @54 C3 = ; <34 &< 7 8 : 3
43 53834 H ; <<9= 2 & ; <D35 2 ; , : 3<3 8 : 3 ; 8 ; 5 ; 2= =8 ; 634 8 : 39<
@<=@98 ; 24 @ : 3= 73A= : ; < ; ==34 ,C ; 88 ; 59 2= @<34 C ; D> 928 8 : 3
D986 =9D> &7 @28 ; 92 ? ; <& ; <3 : ; 5&.=8 ; <B34 ; 24 D ; <<692H ?98 : 8 : 37
2 8 : 92H C@8 ? : ; 8 8 : 36 C< @H : 8 92 2 8 : 39<C ; D> W @H@=8 $#], =
; &9H : 892H & <D3 & < &&32=9B3 3<; 89 2= 8 : 36 ?3<3 @=353== & < = 73
?33>= ; 24 ; 55 8 : ; 8 8 : 39< H323<; 5 D @54 4 ? ; = 8 : 54 & < & < ; H92H
@< =3= ; = 7 @D : &8 : 3 32 H< @24 ; C @8 ; <D35 2 ; ; = : 3 D @54
7 ; 2 ; H3 8 <38 ; 92, 8 : 92H 7 <3 D @54 C3 3== ; 634 8955 ; 53 2
= : @54 B @D : = ; &3 8 =324 : 3 ; B6 <392& <D3 7 328= 8 ; 8 ; 5 29 ; & < 8 : 3
@9. =3 &<3 3292H 8 : 3 =3B3<34 D 7 <99@29D ; 89 2= ?98 : <; 2D3,
? CB9 @= D<989D9= 7 = 2 8 : 3=3 3<; 89 2= 92 8 : 3 7 28 : &
@H@=8 7 @=8 C3 7 ; 43, : 3 &9<=8 9= 8 : ; 8 35 ; 5 ; D9 7 9H : 8 < C ; C56
: ; B3 43=8< 634 @ : 3= 73A= ? : 53 ; <76 9& 92=83 ; 4 &=32492H @8
: 9= 593@832 ; 28 ; 54 ; H@3= ?98 : ; : ; 24&@5 &<3H@5 ; <= ; 24 $ ###
B : 3 : ; 4 7 ; <D : 34 2 %3< 2 ; ?98 : 9= 3289<3 & <D3 8 : 3, ###
54 8< =&< 7 <8 ; : 2 ; 24 8 : 3 ? : 53 &8 : 3 5 D ; 5 53B93=
& 328<; 5 ; 8 ; 5 29 ; , 3DD : 9 ? ; = = ?3 ; > 92 ; <D35 2 ; 8 : ; 8 ; &3 ?
8 : @= ; 24 D @54 : ; B3 >3 8 : 97 92 D : 3D> & < : 3 4 ; <34 2 8
@2H ; 79= : 8 : 3 D986, &8 : 3 ; 8 ; 92.%323<; 5 : ; 4 8 : < ?2 3B3<6 7 ; 2
928 8 : 3 =8<@HH53 ; 8 %3< 2 ; 98 =337= D3<8 ; 92 8 : ; 8 @ : 3= 73 7 @=8
398 : 3< : ; B3 C332 ; 229 : 95 ; 834 < : ; B3 &534 ; ? ; 6 ?98 : 39553 8
9H@3<; = ; C ; 24 292H ; <D35 2 ; 8 98= 923B98 ; C53 &; 83,
1 : 3 =3D 24 D 7 7 328 9= 3J@ ; 556 CB9 @=K @ : 3= 73A= H323<; 5= : 9
* 33 D : <; 23A= ; @8 C9 H< : 6 9, $NN,

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97 <8;2D3,‘ &‘ @=8<9;‘?;=‘<3;556‘92832492H‘,299=D5@3&‘98‘?;=‘D53;<‘8:;8‘8:3‘ 7 3< <‘? @54‘ :;B3‘8?U‘H<3;8‘D 2892328;5‘?;<=‘ 2‘ :9=‘ :;24=‘);8‘8:3‘=;73‘ 7 7328 ;‘ 79=& <8@23‘8:;8.‘:;4‘23B3<‘638‘C3&;5532‘:97,‘ 8‘?;=‘;5<3;46‘C3H92292H‘8 ,C3‘C <23‘92‘@ 2‘:97‘8:;8‘8:3‘8<3;D:3<6‘;8‘ ;6 223‘:;4‘C332‘;‘C5B743<‘;=‘?355‘;=‘;‘D<973,‘ 32D3‘D;73‘8:3‘?954A‘<;H3‘8:;8‘C@<=8=‘ @8‘92‘8:3‘53883<=‘?<98832‘@ 2‘8:3‘4;6=‘& 55 ?92H‘8:;8‘ 2‘?:9D:‘8:3‘23?=‘ &‘ ;6532‘<3;D:34‘ :97‘;8‘ <43;@G,‘ T ;=‘8:3<3‘3B3<‘=92D3‘8:3‘?<54‘C3H;2A‘?< 83‘ 2; ;<83‘8‘5;<>3‘:9=‘7929=83<‘&‘?;<‘T‘C332‘=@D:‘;‘=8@ 94‘D ?;<456‘949 89D‘C@=923==‘;=‘8:9=,‘ 3: 54‘ ;D>‘;24‘ :325 :3‘X@=89&934A‘ @ 28A=‘?2‘49= ;8D:‘=: ?=‘8:;8‘;55‘8:;8‘:;=‘DD@<<34‘9=‘8:3‘<3=@58‘ &‘:9=‘ B2‘92D 2D39B;C53‘& 556,,‘,‘,‘ :3‘5 ==‘ &‘$# ###‘ 9D>34‘732‘?:‘:;B3‘49=; 3;<34‘?98: @8‘3B32‘92&59D892H‘;26‘D 2=943<;C53‘5 ==‘ 2‘8:3‘32376‘?955‘23D3==;<956‘:;B3‘8:3‘?<=8‘7 <;5‘92&5@32D3‘ 2‘8:3‘ ;29=:‘2;89 2,‘,,,‘ 8=‘ 3&&3D8‘ 2‘ @< 3;2‘ 5989D=‘?955‘ <3B328‘73‘&< 7‘H 92H‘8‘ ;92‘76=35&,‘,,,‘ ‘?9=:‘8‘>2 ?‘;8‘ 2D3‘?::8‘8<9C@2;5‘ @H:8‘8‘8<6‘8:3=3‘H323<;5=‘;24‘?:;8‘ 32;586‘8:3‘5;?‘D;2‘92&59D8‘ 2‘8:37‘& <‘=@D:‘;‘D<973‘A‘ ‘=9795;<=8<;92‘<@2=‘8:< @H:‘:9=‘&9<=8‘53883<‘8‘:9=‘C< 8:3<‘- =3 :‘;&83<‘8:3‘<3D39 8‘ &‘8:3‘23?= T @ 28‘:;=‘=9534‘@<)‘C;223<=,‘ :;8‘& 556‘;24‘?::;8‘C;=323==‘^ :3‘ 2H59=:‘?955‘5;6‘:;24=‘ 2‘:9=‘;<76‘ @D:‘3B328=‘7;>3‘98‘23D3==;<6‘& <‘73‘8‘H‘8‘ ;<9=‘& <‘%3<7;26‘ 5;24‘8;56‘;24‘;55‘;<3‘8934‘@‘92‘8:3‘=;73‘>2 8,‘ 8‘ ;92=‘73‘H<93B @=56‘8:;8‘D;22 8‘C3‘?98:‘6 @‘92‘8:3‘7 94=8‘ &‘76‘= 5493<=`,A‘ 2‘ 8:3<‘53883<=‘8:3‘D; 98@5;89 2‘9=‘T;‘83<<9C53‘D;8;=8< :3A‘T;‘: <<9C53‘;&&;9<‘&<‘8:3‘D ?;<4=‘D; 98@.)‘5;834‘8‘=;B3‘8:39<‘C;HH;H3A‘;24‘0 &.‘D @<=3P‘T‘;‘ 7;D:92;89 2‘ ;94‘& <‘?98:‘ 2H59=:‘H 54*,‘ :3=3‘97C3D953=‘;<3‘8)‘=@&&3<‘ 2‘8:3‘=D;&& 54‘8:3‘ 32;586‘ &‘8:9=‘H<3;8‘2;89 2;5‘D<973‘`,A‘ :3‘ 7 3< <

‘ ; 53 2‘8‘5;<>3‘ @H,‘I‘;, &‘* & $‘ L LP,

*9,3,‘ ; 53 2‘9=‘;?;<3‘8:;8‘8:36‘?955‘23B3<‘;55 ?‘8:3‘;<76‘8‘C3‘8;>32‘ :73‘C6‘=3;‘;=8:3‘D; 98@5;89 2‘ < B9434,

,*‘ ; 53 2‘8‘- =3 :‘ @H,‘I‘;, &‘* & $‘ L $LIPK‘* A 5537;H23‘<98;593‘5;‘ 5 H23‘38D,‘8 @8‘=3‘593A‘9=‘8:3‘ 7 3< <A=‘ :<;=3,

* , &$‘* & $‘ L $LL L $ $ L $MI,

’ ‘&3?‘? <4=‘;=8‘ @ 28A=‘&383‘7;6‘C3‘;4434,‘ 9=‘3G 3<932D3=‘4@<92H‘8:3‘23G8‘& @<‘63;<=8:< ?‘;‘D@<9 @=‘59H:8‘ 2‘8:3‘;4792 9=8<;89 2‘ &‘7 9598;<6‘X@=89D3‘@243<‘8:3‘ 7 98<3,‘ 3‘8 H38:3<‘?98:‘/3435‘ :;C3<8‘ ;<3=D 8‘3H324<3‘;24‘8:3‘;943.43.D;7‘/955 @8<36=‘?3<3‘;<<3=834‘ 2‘<38@<292H‘8‘<;2D3‘;24‘8:< ?2‘928‘<9= 2,‘ :36‘?3<38 54‘8‘<3 ;<3‘& <‘;‘8<9;5‘C3& <3‘8:3‘@ <373‘ 9H:‘ @<8; ‘* ‘ # & $‘;24‘;‘5 2H‘=3<93=‘&‘9283<.

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B;5536' &' 8:3' @< ' ;24' /3<493<' 92' 8:3' B;5536' &' 8:3' C< ' ?3<3' =8955' 8 ' <3= 2 3' ;' & 2B;<4' =989 2 ' ;24' =:9354' 8:3' ;<76' &' 8:3' D328<3 '&< 7 ' 8:3' &5;2>' ;88;D>=' &' 8:3' %;59D9;4=' ;24' 8:3' <;H 2V 3=3,' :3' 8< =' 53&8' ;< @24' ;4<94' ;8' 8:3' 7 7328' &' 8:3' 49=;=83<' &' ;6532' ?3<3' ;<8=' &' 8:3' 8:<33' 49B9=9 2=' &' 2D36A=' D < =' 0' 23' &' @ 28A=' ;24' 8:3' C<9H;43' ?:9D:' :;4' 3=D <834' -=3 :' ; V 53 2' &< 7 ' @<H =' 8 H38:3<' ?98:' I 8P##' :<=3 ;' 8 8;5' &' ;C @8 $I ###' 732,' 2; ;<83' X@4H34' 8:;8' 8:9=' ?;=' 2 8' 32 @H:' 8 ' <3=9=8' 8:3' D 7C9234' ;88;D>A &' ;=8;2 =' ;24' &' 8:3' /;532D9;2=' ;24' @<D9;2=' &' ;928' ;<D:' ;24' 5;7;=,' DD <492H56' :3' 92832434' 8:;8' 3==93<3=' =:@54' 5324' 8:3' 092H' 8? ' C<9H;43=' &' 92&;28<6 ' ;' 434@D89 2' &< 7 ' :9=' & <D3' ?:9D:' ? @54' D 7 35' :97' 8 ' &;55' C;D>' &< 7 ' 3 2' 928 ' 54' ;=8953' ;24' 8:;8' /3<493<' =:@54' = ;<3' ;' C<9H;43' &< 7 ' 8:3' ;<76' 92' &< 28' &' ;<;H ==;' 8: @H:' 98' ?;=' 2 23' 8 ' =8< 2H' & <' 8:3' 8;=>' C3& <3' 98,' 9G' C;88;59 2=' &< 7 ' 8:3' <3=3<B3' ;8' ;6 223' ?3<3' 8 ' 7 ;>3' ;' & <D34' 7 ;<D:' 8 ' ;4<94' 8 ' X 92' 8:3' 092H,' :@=' <392& <D34' @ ' 8 ' I ###' 732' 8:3' D < =' ;8' ;4<94' ? @54' C3' ;C53' ;=' 8:3' 7 3< <' =@ =34' 8 ' 7 ;>3' :3;4' ;H;92=8' ;26' D 7C92;89 2' &' ;29=:' 8< =' 8:;8' D @54' ==9C56' C3' C< @H:8' ;H;92=8' 98,

@8' ;55' 8:3=3' ;<<;2H37328=' ?3<3' &@8953,' 2; ;<83' ;8' <43;@G' ?;=' =3 ;<;834' &< 7 ' :9=' C< 8:3<' ;8' 8:3' 389< ' C6' = ' 7 ;26' 7953=' 8:;8' :9=' <43<=' ?3<3' H< ?7' =8;53' C3& <3' 8:36' <3;D:34' 8:39<' 43=892;89 2,' 9=' =D:373' ?;=' 7 ;43' @8' 2' @H@=8' $ ' C@8' 2' 8:3' <3D3492H' 4;6' 092H' - =3 :' ;24' :9=' ?: 53' ;<76' :;4' 3B;D@;834' ;4<94,' :3' 83<< <' &' ;6532' ?;=' @ 2' 8:37 ' ;24' 8:36' ?3<3' 3G 3D892H' 3B3<6' 7 7328' 8 ' &924' 8:37=35B3=' ;88;D>34' *C6' ;=8;2 =' ?: ' ?;=' ;=' ;' 7 ;883<' &' &;D8' D353C<;892H',8<9@7 :;5' &3;=8=' ;8' 3B9553,' 98:' ;

' /9R,' @=293<A=' 49B9=9 2' &' 2D36A=' D < =' <3<3A=' 49B9=9 2' &' @ 28A=' D < =
@X38A=' C<9H;43' &' <5 8A=' 49B9=9 2' &' 2D36A=' D < =' ;
37;92=' &' ' C;88=,P' &' % C3<8A=' 49B9=9 2' &' 2D36A=' D < =' ;
36A=' C<9H;43' &' 92&;28<6' 0- =3 :A=' 3=D <8P' ,
2&;28<6' ;24' ;B;5<6' &' 8:3' 7 3<9;5' %@;<4',
;B;5<6' &' 8:3' 923

N,N## 732'
L L## E
I, ## E
$,N##$ E
Q
$ ## E
, ## E

$I I##

' * 3&3CB<3A=' C<9H;43' ?:9D:' C35 2H34' 8 ' <5 8A=' 492=9 2' &' 2D36A=' D < =' 98' :;4' C332' 5328' 8 ' 3==93<3=' &' <' 8:3' 7 7328 ;24' 362;@4A=' C<9H;43' 9,' 3,' N I## & 8' ;5=' 8?' ' D;B;5<6' <3H97328=' 7 ;>92H' N# ' 92' ;55,

* ;R;2D @<8A=' C<9H;43' &' 8?' ' B383<;2' <3H97328=' 0 L8:' ;24' LL8:' &' 8:3A' 5923P' 8:3' 5;=8' 8:;8' :;4' ;<<9B34' ;8' ;<;H ==;,

;' '

& ;5;& G, &8:3 ;29;<4=:= ?34 =9H2= & <3==92H92 2 ;26
S ;<8 &8:3&< 28 8:3 0 92H /3<493< < 3==93<3=U 8:3 D;=3
79H:8B43 7 ;24 7@=8 2 8 : ;2H C;D> C@8 3243;B 7\8 =: ;883<8:3
B;2H@;<4 & ;26 ;4B;2D92H & <D3 C6 ; C 54 =8< >3, 8 ;55 D =8=
8:3 ?;< 7@=8 2 8 C3 ?;H34 92 ; 897 94 =8653 92 =: <8 8 ;4 8
; ?355.>2 ?2 7 9598;<6 ;G9 7 T8:3 C3=8 43&32=9B3 ? @54 C3 ;
B9H < @=5 D;5 &&32=9B3 ,A 3;2?:953 98 =: @54 C3 >2 ?2 8:;8
32 <7 @=<392& <D37328=?3<3 92 7 ;<D:& <7 8:3 :923 ;24 8:3
5C3, :9=?;= 924@C98;C56 D <<3D8 & < 2 @H@=8 N 8:3 =8
;24 N8: < = &8:3 T%<;24 <7 6 A ;24 8? 49B9=9 2= &:3;B6
D;B;5<6 :;4 C332 =328 8:39< <43<=8 C<3;>@ &< 7 8:39<H;<<9= 2=
;24 =38 @8 & < ;92 :3 /9D3< 6 & 8;56 ;24 8:3 <92D3= &
8:3 2&343<;89 2 &8:3 :923 :;4 ;5= C332 49<3D834 8 =324
5;<H3 D 2892H328=8 8:3 3292=@5;K 8:3 8< =&< 7 8;56 ?3<3 8
7 B3 2 3< 9H2;2 ;24 =8<32H8:32 8:3 ;<76 & ;8;5 29;S 8: =3
&< 7 8:3 %3<7 ;2 =8;83= ?3<3 8 7 ;<D: 2 ;6 223 ;24 X 92 8:3
7 ;92 ;<76`, 73?:;8 5;83< 8:3 7 3< < 49<3D834 =8955 &@<8:3<
7 ;==3= & 732 8 C3 4 ; B2 && &<N7 %3<7 ;26 2;7356 ;<=:;5
<893< ?98:8:3 8: < =;24 8? 7 <3 49B9=9 2= &4<;H 2=
?:953 8:3 ?: 53 &8:3 7 3<9;5 %@;<4 D;73 4 ?2 &< 7 ;<9= 2
8:3=;73 3<<;24 `; :3<3 ?3<3 =8955 23;<56 ## ### &8:3 54 ;<76
53&8 92 ;92` ;24 8:3 <392& <D37328=?@54 ;7 @28 8 I# ###
7 <3 ;& <D3 ?:9D: ?:32 @29834 ? @54 &;<=@< ;==C 8:92 2@7C3<=
;24 92 J@;5986 ;26 ;<76 8:;8 8:3 ;29;<4=?@54 C3 ;C53 8 H38
8 H38:3<92 8:3 D @<=3 &8:3 23G8 8? 7 28:=,
8 ?;=&< 7 D:3& <8 ;24 2 @H@=8 N 8:;8 ; 53 2 =328 &&
:9= <43<=8 :9= C< 8:3<8 =8;6 :9= <38<3;8 ;8 <;24;43 @3<
;24 8 >33 3==93<3= ;8 /;55;4 594 ;24 /3<493< ;8 @435;, 2D3
7 <3 8:3 49=8;2D3= &= ;D3 ;24 8973 ?3<3 8 7@D:& < :97,
3& <3 8:3 49= ;8D:&< 7 D:3& <8 D;73 8 :;24 - =3 : ;24
;B;<6 :;4 ;5<3;46 ;C;24 234 <;24;K 8:36 53&8 98 2 8:3 =9G8:
,1;24 C6 8:3 2928:?3<3 ;8 @<H =, 8 8:;8 D986 8:36 ?3<3 738 C6
3==93<3= ? : ;DD <492H8 8:3 09<9HA= <43<=:;4&;5532 C;D>&< 7
* 83 2 8:3 =98@;89 2 & ;92 @H, O 99 , * & $ L $L P,
* ; 53 2 8 5;<>3 @H, N ;, & * & $ L $LLP,
* ; 53 2 8 @H323 @H, # ;, & * & $ L $L"P ;24 8 5;<>3 ;, & * & $ L $ NP,
* ; 53 2 8 5;<>3 @H, ;, & * & $ L $NNP,
* GD3 8 &D @<=3 8:3 C<9H;43 &&@=9593 9K= ;24 8:3 8:<33 D;B;5<6 <3H9 7328=?:9D: ?3<3 ;5<3;46 92 ;92,
* <"M ###8 C3 3G;D8 @253== 39553A=& <D3 92 @==955 2 C3 ;4434,

M##M] : K * L / . #$($ H;

;24 ;5;& G 494 2 8 D 7 7 32D3 8955 8:3 =3D 24 : ;5& & 3 837C3< 66:32 8:3 D 5@7 2= &8:3 T%<;24 <7 6 ?3<3 ;5<3;46 4<;?92H 23;< 8 8:3 6<3233= ;24 ; ==9C53 D:;:D3 S @DD3== :;4 5 2H H 23 C6, :36 ?3<3 2 8 43B35 34 8955 D8 C3< ?:32 8:3 D @283<. 9G4>3 & 8:3 <32D: ?;= &@556 <3 ;<34, < 7 @H@=8 4 62 8 8:3 4;6 & 8:3 C;8853 & Q <2 R;0 D8 C3< I P 8:3<3 ;<3 8? 7 28:= ;24 ;: ;5& & ?;=834 897 3 4@<92H ?:9D: 8:3 ;29;<4= 494 2 8:92H 7 <3 8:;2 =89< @ ;2 923&&3D8@;5 <9=92H 92 9=D;6 ;24 H<;4@;556 @=: 8 8:3&< 28 =D;883<34 D < = ?: =3 8 8;5 494 2 8 ;7 @28 8 7@D: 7 <3 8:;2 ## ### 732, :3 8< = & 2; ;<83 2 8:3 8:3<:;24 2 ?@243< 8:3 <43<A= &- @<4;: ?: ;<<9B34 ;8 9<374;2 @H@=8 $ A :;4 598853 8 4 C@8 8 ?;<4 &&8:3 &33C53 ;883 7 8= 8 D@8 8:39< D 7 7 @29D;89 2= 92 9=D;6 ;24 8 92D < <;83 C<9H;43 C6 C<9H;43 8:3 2@73< @= <392& <D3 7 328= ?:9D: >3 8 7;<D:92H 92 &< 7 ;6 223, <3B32 3<3 8:3 8:<33 B383<;2 D < =&< 7 %3<7 ;26 D;73 8 :;24 8:3<3 ?;= ;D 2892@ @= =8<3;7 &8< = @<92H ;D< == 8:3 i<<3233=, =8 97 <8;28 3<:; = &;55 8:3 ;<<9B;5= ?;= 8:;8) & ;<=:;5 36 8:3 8 @H:3=8 ;24 7 =8 <3= 5@83 &;55 8:3 7 3< <A= &9H:892H.732 ?: C< @H:8 ?98: 97 ;= 9<98 &3283<V <9=3 ;24 D 2&9432D3 ?:9D: :;4 5 2H C332 ?;2892H 92 8:3 ;<76 & ;92 `,

* 33 :9= 1 # 0 ; NNX N P & <8:3 =98@;89 2 ;8 8:9= 4;83,
* 3 ;<<9B34 ;8 292 2 @H, I# ; $ 3 8, 8: M##MP,

M#M] % L I

=;&386 <B3G:9= <3= 3D8;C53 239H:C @<=: :3<3=8 &8:3 ;3<
2 8:9= ;24 8:3 8? & 55 ?92H 4;6=9= &95534 @ ,?98: 3==;6= 2
H3 H<; :6;24 5989D;5 3D 2 7 6 59=8= &=3<B;28= =33>92H 5;D3=
;24 D 5 @<53==& <39H2 23?= 7;26 ?33>= 54, @D: 983 @= =8@&&?;=
2 8 59>356 8 >33 8:3 3 53 J@938K 2 @H@=8 LH;7 C;==37C534
C< >3 32 8:3 : @=3 & 2 @9= /9H@<9 0 23, &% 4 6A=, 54
D 2&94;28=P 7@<43<34 :97 ;24 4<;HH34 :9= C 46 8:< @H: 8:3
=8<338=, 3;<92H 8:;8 8:36 8 7 9H:8 C3 D 2=943<34 <
8:3 @2D95 @C59=:34 ;=3D 24 < D5;7;89 2 &8:3 7 =8 ;CX3D8
>924, :3 T 7 35;2D: 56 92=8;2D3 &92=@C <492;89 99A &8:3 <3B9 @=
4;6 D;@=3= 8:37 T928 53<;C53 = << ?A ;24 9= T @259>356 8 8324.8
@C59D &359D986,A :3 5 6;5;24 H323< @= D989R32= @H:8 8 ?;98& <
8:3 ? <>92H &8:3 5;?;24 98= 7929=83<= ;24 2 8 8 8;>3 8:3
3G3D@89 2 &X@=89D3 928 8:39< ?2 :;24=, :3 D53<H6 8:3 5 D;5
&&9D9;5= 3B3<6 37 5 63 &5;C @< 3B3<6 &;8:3< &; &;7956 ;<3 C3HH34
8 :35 8 7;928;92 3;D3;24 <43<, :32 D 73=;; H3 &2 89D3=
&23(B C >=;24;=: <8 ; 3< 2 8:3 38:9D= &37 9H<;89 2 A &
3<492;24 / < - =3 : & 5989D= 4 7 3=89D < & <39H2 8:3<3
9= 2 8 ;? <4, ? 4;6= 5;83< 8:3 @2D95 ;8 5;=8 7;>3= @ 98=
7924 ;24 ;&83< ;? 33> &7 =8 @2D 7& <8;C53 =98892H 2 8:3 &32D3
=@443256 C@<=8= @8 928 ;2 T 44<3==8 8:3 : 2 @<;C53 ;24 H323< @=
3 53 &8:3 D; 98;5 & ;92 A 92 8:3 :9H:3=8 =8<;92 & ;8<9 89=7 K
T @<5 B34 O92H 9= 92 D:;92= C@8 :9= 5 6;5 =@CX3D8= :;B3 <9=32 92
:9= 2;73, @< H;55;28 ;<793 :;B3 ;D:93B34 8<9@7 := B3< +8:3
92B92D9C53= & ;<32H @=83<598R ;24 -32;,c 55 @< 3 =8;24=
=@< <9=34 ;8 8:39< <; 94 B9D8 <93=, :3=3 &355 ? D989R32= & @<=
D< ?234 ?98: 8:3 5;@<35= &=@DD3== ? 955 = 2 C3 ?98: @=, 3;2V
?:953 8:3 @2D95 7@=8 C3H 8:3 ;8<9 89D D989R32= & ;4<94 8
;C=8;92 &< 7 <9 8 ;24 7@<43< ;24 8 8@<2 8:39< 323<H93= 928
7 <3 @=3&@5 D:;2235=, 38 8:37 < =8<;83 8:37=35B3= C3& <3 8:3
;58;< 92 H<;83&995 8:;2>= 8 % 4 ;24 7;>3 <3 ;<;89 2= 8 <3D39B3
;24 37C<;D3 8:3 2D 792H C;24= &59C3<;8 <=,A 73=89D 92V
83559H32D3 C3D 73= & <8:3 &@8@<3 ;59=8 &<32D:;8< D9893= ;24
&0= 7389 73= ; D96 :;5P B9D8 <93= 92 8:3 <39 83< D <23<= &
;92 <39H2 9283559H32D3 9= =3<B34 @ ?98:;:2H59=:<;8:3<

)< D5;7;89 2 &8:3 @2D95 499834 @H, @C59=:34 @H, $ 92 8:3
:3<3 9= ;2 <9H92;5 D 6 &8:3 C< ;4=:338 92 8:3 5 6 &
* 2 @H, "8:3 <3;43< 9= 92B9834 8 C3593B3 8:;8 @==955 2 :;= <9=32
;H;92=8 ; 53 2;24 8:;8 8:3 3;=;28<6 :;B3 =8 <734 98= &< 2893<.& <8<3== &
3553H;<43,

8:;2' ;' <32D:' &5;B @<,' :3' ;<=32;5' &' T' / 5 B9D:' 9=' =:9 92H' =D <3=' &' D;22 2' ;24' 8: @=;24=' &' 7@=>38=' & <' 8:3' @=3' &' 8:3' C<;B3.' ;29;<4=' 8:3' 8<3;=@<3=' &'%<3;8' <98;92' ;<3' 8 ' C3' @< ' 928 .' 8:3' :;24=' &' 8:3' 92=@<<3D89 2;<6' -@28;=' ;24' = ' & <,8:;' 55' 8:9=.D 7 3=.;' 598853' 5;83K' 8:3' H 4' 9283289 2=' &' 8:3' @2D95' ? @54' 5 B3' C332' 7 <3' D53;<' 9&' 8:36' :;4' C332'J 3G <3==34' 2' @H@=8' $' 92=83;4' &' @H@=8' ' ?:32' 8:3' <32D:' ?3<3' =89 ' ;8' @98<;' ' <;8:3<' 8:;2' ?:32' 8:36' ?3<3' &;<' ;?;6' C36 24' <;24;' 43' @3<

8' 9=' <3;556' ;=8 29=:92H' 8 ' &924' 8:;8' 8:3' @2D95' 7 ;43' ;' C94' & <' ?3<' ;24' ;8837 834' 8 ' ;==@73' 8:3' =3' &' ;' =32;83' &' ?;<7V :3;<834' ;8<9 8=' ;&83<' ;55' 98=' C;=3' =3<B95986' 8 ' @<;8' ;24' ;B;<6' 4@<92H' 8:3' 5;=8' =9G' 7 28:=,' 8=' <3=94328' 2' <9;=' 2'6' / 4;<43' ;D8@;556' :;4' 8:3' ;@4;D986' 8 ' ?<983' ;' D9<D@5=9<.2 83' 8 ' 8:3' B;<9 @=' < B92D9;5' -@28;=' &' ;92' < =92H' 8:;8' ;=' ;' =92H53' D328<;5' H B3<2 7 328' 7@=8' CB9 @=56' C3' 3=8;C59=:34' 8:36.'=: @54' =324' <3 <3V =328;89B3=' 8 ' ;4<94' 8 ' D 2D3<8' ?98:' 8:3' @2D95' 2' 7 3 9=' &' 43&32D3' ;24' 5324' 98' 8:3' ;94' &' 8:39<' 92&5@32D3' ;24' ;@8: <986,' :;8' =@D:' ;' 49=D<3498 34' C 46' =: @54' ;8837 8' 8 ' ;==@73' ;' >99 4' &' <3=943289;5' ;@8: <986' B3<8:35 D;5' -@28;=' ? : ' :;4' <;9=34' ;24' 49<3D834' 8:3' 92=9@<3D89 2' ?;=' ;C=@<4,' :3' <3 593=' ? :9D:' ?3<3' <38@<234' ?3<3' &' 8:3' 7 =8' @2D 7 < 79=92H' >924K' 8:3' %;59D9;2' -@28;' 8;@2834' 8:3' @2D95' ?98:' :;B92H' C332' T8:3' 7 =8' ;D89B3' 92=8<@7328' &' 8:3' =@J 3<,A' ;5;& G' = 3;>92H' & <' <;H 2' ?< 83' 8:;8' 98' T ?;=' ;' D < <;89 2' ?:9D:' :;4' 2 8' 4 23' 98=' 4@86,A' :3' ;D89B3' ;24' ;7C989 @=' -@28;' & 3B9553'A ?9=:34' 8 ' ;DD@=3' 8:3' @2D95' C3& <3' 8:3' &;D3' & 8:3' ;29=:' 3 53' T &' :;B92H' =@CB3<834' 8:3' &@24;7328;5' 5;?=' &' 8:3' <3;57 ' &' :;B92H' H9B32' 8:3' 3237 6' 3B3<6' &;D95986' & <' =39R92H' 8:3' 4 792;89 2' &' ;92' &' :;B92H' 5 =8' ;55' 53H;5' ;@8: <986' j924' C3D 73' 2@55' ;24' B 94' ;24' &' C392H' =@= 3D834' &' 4359C3<;83' 8<3;= 2' &' 8:3' 7 =8' ;8< D9 @=' = <8' ==9C53,A' 593' / ;532D9;2=' B 834' 8:;8' T 2 ' @C59D' C 46' &' ;26' >924' @H:8' 8 ' 3283<' 928 ' D <<3= 2432D3' ?98:' 8:3' @29D95' &' ;=8953' < ' 9,' 3,' 5?9D8&,b*

*' 8' 9=' -9;<4' 8 ' ;H<33' ?98:' ; 93<A=' B3<49D8' 8:;8' T') :3' @2D95' ?;=' 2 8' ?;2892H' 8 ' 98=35&' 8:3' 9249B94@;5=' D 7 <9=92H' 98' 494' 2 8' :3=98;83' 8 ' =39R3' 8:3' <392=' &' ?3<?:32' 8:3' <32D:' :;4' 43 ;<834 ' ;24' 8:3' <@432D3' ?98:' ?:9D:' 8:36' <3=3<B34' 8<;2J@955986' 92' 8:3' D; 98;5' ;24' <3B32834';55' <3;D89 2' < B3=' 8:;8' 8:36' ?3<3' 2 8' ?98:' @8' 73<98' ;24' & <7=' ;' =8<9>92H' D 28<;=8' 8 ' 8:3' D 2V 4@D8' &' 8:3' < B92D9;5' -@28;=' @243<?: =3' =;B;H3' =?;6' 3B3<6' >924' &' 3GD3=' ?;=' D 7 798834' ;24' 3B32' 32D @<;H34'A 0 ; 93<' 9,' $'' P,

M##M] ' ' ' ' % / ' IL

D 7 3' 8 ' ;26' @243<=8;2492H' ?98:' 98 ,A' 55' 8:3=3' <3C@&&=' 8 ' 8:3'
@2D95' ?3<3' ?355' 43=3<B34 ' ;24' 98' 9=' D53;<' 8:;8' 8:3' < B92D9;5'
-@28;=' ?3<3' 3289<356'X@=89&934' 92' 8:39<' ;D89 2,' @8' 98' 9=' 8 ' C3' &3;<34'
8:;8' 8:3<3' 5;6' ;8' 8:3' C 88 7 ' &' 8:39<' :3;<8=' 2 8' 7 3<356A: 23=8'
9249H2;89 2' ;8' 8:3' 97 @4328' < =;5' 8:;8' :;4' C332' 5;94' C3& <3'
8:37 ' C@8' ;' 2 8' @22;8@<4' 43=9<3' 8 ' D592H' ;=' 5 2H' ;=' ==9C53' 8 ' 8:39<'
3G9=892H' ?3<;24';@8: <986,' 2' 7 ;26' &' 8:3' < B92D3=' 8:3<3' ?;=
=: (B2' ;' 7 =8' @2? <8:6';24' @2?9=3' <35@D8;2D3' 8 ' < D334';8' 2D3'
8 ' 8:3' D 2=8<@D89 2' &';' =92H53' H B3<292H' C 46' &' <' ;92' 3B32' ?:32'
' 8:3' < =;5' ?;=' @8' & <?;<4' 2 8' C6';' 49=D<3498 34'D < <;89 2' 59>3'
8:3' @2D95' C@8' C6' 732' &' @24 @C834' ;8<9 89=7,
:3' D<3498' &' =8;<892H' ;' =3<9 @=' ;H98;89 2' & <' 8:3' 3G3D89 2' &';'
T @ <373' -@28;A' 7@=8' C3' H9B32,8 ' 8:3' @<D9;2=' ?: =3' D @2D95=
?3<3' H@9434' C6' 8:3' 54' =8;83=7;2' 5 <94;' 5;2D;' ;' =@<B9B <' &< 7'
8:3' 4;6=' &' :;<53=' ,' =' &;<' C;D>' ;=' -@23' $$' 8:36' :;4@==@34'
;' < D5;7;89 2' =38892H' & <8:' 8:3' 3B95=' &' < B92D9;5' ;9.89D@5;<9=7'
;24';4B D;892H' 8:3' 3=8;C59=:7328' &';' D328<;5' H B3<27328,' 23'
&' 8:3' 8:3<' -@28;=' B328@<34' 3256' 8 ' =3' 8:9=' 5;@4;C53'
*4H=9H2' ;24'= 73' &'8:37' 494' 8:39<' C3=8' 8 ' &@<8:3<' 98,' @8' 8:3<3'
?3<3' 8:3<=' ?:' D5@2H' 8 ' ?3<$;24' ?3<3' 4383<7 9234' 8 ' =@<<3243<'
98' ;8' ;=' 5;83' ;' 4;83' ;=' 8:36' D @54' 7;2;H3,' :3' -@28;' &' 3B9553'
?;=' &;<' 8:3' ? <=8K"8:;8' C 46 ;=' ?3' :;B3' :;4' DD;=9 2' 8 ' 7 3289 2'
92' ;2 8:3<' 5;D3 ?;=' 5;<H356' 92' 8:3' :;24=' &' 928<9H@3<=' ;24' :;4'
@8' & <8:' @2X@=89&9;C53' D5;97=' 8 ' 4 792;89 2' 92' 8:3' ?: 53' = @8:3<2'
;<8' &' 8:3' <3;57 ' 3B32' @=@< 92H' 8:3' 89853' &' T @ <373' -@28;' &'
;92' ;24' 8:3' 2493= ,A] 2' 8:39<' 43=9<3' & <' =35&.;HH<;249R3 7 328'
8:36' 8 >' 7 =8' @2X@=89&9;C53' =83 =K' 8:36' =@ <3==34' 5 <94;' 5;2D;A=
@<D9;2' < D5;7;89 2' 53=8' 98' 7 9H:8' =89<' @ ';2';H98;89 2' 92' 24;V
5@=9;' 92' C3:;5&' &' 8:3' 3=8;C59=:7328' &';' D328<;5' H B3<27328' `;' @8'
8:9=' ?;=' ;' D 7 ;<;89B356' B329;5' =92K' 8:39<' ? <=8' ;D8' ?;=' 8 ' =8;6'
8:3' 7;<D:' &' ;=8;2 =' 2' ;4<94';&83<' ;6532,' :3' <383G8' @=34'
;' ?;=')8:;8' 8:36' ?9=:34' 8 ' ?35D 73' 8:3' B9D8 <9 @=' H323<;5' ;24' :9='
;<76' ?98:' 8<9@7 :;5' 328<93=' ;24' &3;=8=' &' <3X 9D92H 8:92H=' 3289<356'
@8' &' 5;D3' = ' 5 2H' ;=' 8:3' <32D:' ?3<3' =8955' : 5492H' 8:3' D; 98;5'
&' 8:3' <3;57,' ' :9=' ?2' 3289<3' 49==;89=&;D89 2' ;=8;2 =' ?;=
4<;HH34' C;D>' 8 ' 3B9553' 8:3<3' 8 ' 49= 5;6' 8:3' D; 8@<34' H@2=' ;24'
&5;H=' &' 8:3' <32D:' ;24' 8 ' C3)<3D39B34' ?98:' =;5B =' &9<34' C6' ;8<9 89D

' 55' 8:3=3' J@ 8;89 2=' D 73' &< 7' 8:3' 4 D@7328=' 92=3<834' C6' <3&9' 92' :9='
;&9&8:' C >' 09,' NP,
* 33' ;H3' N",' * ' <4' 5592 4A=' * & # ' $' 99,' "M,

49B9=9 2= 8: =3 & 3492H - 23= ;24 @ 9H26 494 2 8 D< == 8:3 93<<; <32; & < 7 ;26 ?33>= ;&83< ;24 = 73 &8:38< = : ;4 2 8 3B32 53&8 24;5@=9; ;8 8:3 7 7328 ?:32 8:3 <32D: <3=@734 &&32=9B3 3<;89 2= 92 D8 C3<, 2 B;<9 @= = 3D9 @= <3832D3= 8:3 -@28; 438;9234 7 ;26 <3H97328=,;8 3B9553 ;24 ;49R H9B92H @8 8:;8 8:36 ?3<3 8 & <7 8:3 2@D53@= &; 23? ;<76 &<3=3<B3 ?:9D:? ;= =8955 ; 73<3 =>3538 2 8:<33 7 28:= ;&83< ;6532 : ;4 C332 & @H:8, &?3 D 7 ;<3 8:3 24;5@=9;2 ;<76.59=8 & B37C3< ? 55: 8:;8 & -@56 ?3 &924 8:;8 256 =3B32 23?C;88;59 2= : ;4 X 9234 8:3 ;<76 & ;=8;2 = 92 8973 8 &9H:8 2 8:3 C< , 8 9= 8<@3 8:;8 ; 23? 49B9=9 2 : ;4 C332 ;5= <;9=34 X2 %<;2;4; ;24 =328 8 ;8;5 29;@243< %323<;5 3492H C@8 8:9= ?;= 4@3 8 8:3 323<H6 & 8:3 -@28; & 8:;8 =7 55 >92H4 7 ?:9D:? ;= &;< 7 <3 ;D89B3 8:;2 8:;8 & 3B9553, 24;5@=9; :;4 L# ### 732 @243< ;<7= 92 -@56 ;24 2 7 <3 8:;2 N# ### ;8 8:3 C3H92292H & B37C3< 8: @H: 8:3 -@28; :;4 < 79=34 8 :;B3 ;8 53;=8 8:9<86 <3=3<B3 C;88;59 2= <3;46 C3& <3 8:3 324 & 8:3 ;@8@72 ;24 :;4 <3D39B34 &< 7 2H5;24 32 <7 @= =8 <3= & 7@=>38= ;24 D5 8:92H & <8:39< 3J@9 7328,

2 8:3 2 <8:3<2 ;<8= & ;92 8:3<3 ?;= ;57 =8 ;= 7@D: D 2 &99=9 2 ;<89D@5;<9=7 ;24 =35&9=:23== ;= 92 8:3 = @8:, :3 7;92 = @<D3= &8< @C53 ?3<3 8:3 <9B;:6 &8:3 -@28;= & =8@<9;= ;24 %;59D9; ;24 8:3 3G8<;B;H;28 D5;97= &8:3 ;H34 ;24 97C3D953 @3=8; 92 B9<8@3 & :9= =989 2 ;= ; 8;92.%323<;5 & ;=8953, 8 ?955 C3<37373C3<34 8:;8 92 -@23 92=@<<3D89 2;<6 -@28;= : ;4 C332 3=8;C59=:34 ;8 3 2 ;24 /;55;4 594 8:3 & <73< @< <892H 8 <3 <3V =328 8:3 >92H4 7 & 3 2 8:3 5;883< 8:3 >92H4 7 & 54 ;=8953, ;D: : ;4 C332 @243< 8:3 8:@7C & @3=8; ?: 5 >34 @ 2 8:37 ;= 2 8:92H 7 <3 8:;2 D 7 7 98833= 3=8;C59=:34 @243< :9= ;@8: <986 & <8:3 D9B95 H B3<2732 8 &8:3 < B92D3= &8:3 @< , @8 8:3 49=;=83< & 3492;43 9 3D 43=8< 634C 8:8:3 ?3<;24 8:3 D<3498 &8:3 ; 8;92.%323<;5, 5692H C3& <3 8:3 <32D: 8:3 -@28;= 8 > <3&@H3 92 %;59D9; ?:3<3 8:36 =388534 4 ?2 ;8 2&3<<;4;& <;&3?4;6= ;24 8:32 7 B34 8 @H ?:98:3<8:3 -@28; & %;59D9; D;73 @8 8 7338 8:37, :3 8:<33 C 493= X 9292H 92 D 7 7 2 =3==9 2 D: =3 ;= 8:39< <3=9432 8 2 28 29 / ;543= 8:3 ;959&& & 8:3 029H:8= & ;58; ?: ?;= 23 &8:3 <3 <3=328;89B3= & ;=8953, :36 D5;973 4 8 C3 <3D H29R34 ;= 8:3 =@ <373 D9B95 9<;4 <3= 43 = ;&9; < B92D9;5 43 ;49R ;<7 2; ;6532 ;B;= 43 5 =; I<4;24 N859 / 5@2833<= & 3B9553,

593 ? : 53 7 28 : & @H@=8 98 9= 2 8 8 7 @D : 8 = ; 6 ? ; = 5 =8 & < 7 9598 ; <6 @< =3= C3D ; @=3 ;92 : ; 4 2 8 =@DD33434 92 &@<29= : 92H 9&=35& ((9 8 : ; D328<;5 H B3<2 7 328 < ; D 7 7 ; 243<.92 .D : 93&, 8 : ; 4 C332 B;=834 92 D 2=898@89 2 ;5 43C ; 83= &8 : 3 7 =8 &@8953 >924, 3B3<6 23 3GD3 8 8 D3<8 ; 92 &8 : 3 7 <3 =35&9= : 7 3 7 C3<= &8 : 3 -@28 ; = 98 ? ; = D53 ; < 8 : ; 8 ; ? ; 6 7 @=8 C3 & @24 @8 &8 : 3 3G9=892H ; 2 ; <D : 6, : <33 D @<=3= =33 7 34 ==9C53K 23 ? ; = 8 ; 928 ; 3H328 < ; = 7 ; 55 @2D95 &8 3H32D6 ; 24 8 328<@=8 8 : 9 7 0 < 8 8 : 3 7 P 8 : 3 D 24@D8 &8 ; &&; 9<=, : 3 =3D 24 ? ; = 8 =@7 7 2 8 : 3 <83= 8 : 3 54 2 ; 89 2 ;5 ; <59 ; 7 328 &8 ; 92, : 3 8 : 9<4 ? ; = 8 3=8 ; C59= : ; 23? = <8 &8 D328<;5 H B3<2 7 328 C6 924@D92H 3 ; D : &8 : 3 3G9=892H -@28 ; = 8 =324 43 @893= ? 98 : &@55 ? 3<= &8 <3 <3=328 ; V 89 2 8 =98 8 H38 : 3< ; = ; I @ <3 7 3 328<;5 -@28 ; A &8 : 3 ? : 53 <3 ; 5 7 , : 3 < X3D8 &8 ; 92892H ; 3H328 : ; 4 ; 8 &9<=8 7 ; 26 ; 4B D ; 83= K 98 DD@<<34 8 C 8 : ; =8 ; 2 = ; 24 ; 5 ; & G ; 24 3 ; D : 0 ; = 98 D : ; 2D34P 98D : 34 @ 2 8 : 3 =; 7 3 9249B94@ ; 5 ; = 7 =8 B <8 : 6 &8 : 3 =8 : 9= ? ; = 8 : 3 <D : 4@>3 : ; <53= &8 @=8<9 ; 8 : 3 = 53 H323<;5 92 @< 3 ? : ; : ; 4 B 2 ; 7 9598 ; <6 <3 @8 ; 89 2 &8 : 3 &9<=8 D5 ; == B : 953 D 2832492H ? 98 : 8 : 3 <32D : , 3 B @54 : ; B3 C332 ; 2 3GD35532 8 D : 9D3 9& 256 : 3 D @54 : ; B3 C332 =3D@<34, @8 98 494 2 8 8 ; >3 7 @D : <3&53D89 2 8 =33 8 : ; 8 9& @=8<9 ; ; 55 ? 34 : 3< H<3 ; 83=8 D ; & : 92 8 ; DD3 8 =@D : ; =8 = : 3 ? @54 92B 5B3 : 3<=35& 92 92=8 ; 28 ? ; < ? 98 : , 2 ; ; <83 ; 24 9& =@D : ; ? ; < C< >3 @8 8 : 3 <D : 4@>3 ? @54 C3 ? ; 2834 2 8 : 3 ; 2@C3 < ; 8 : 3< 8 : ; 2 @ 2 8 : 3 C< ,) : 3<3 ? ; = 2 8 : 3< 2 ; 7 3 59>356 8 D 7 7 ; 24 H323<;5 D 2&9432D3, 7 3 >3 &8 : 3 ; <492 ; 5 <D : C9= : &8 534 F 8 : 3 5 ; =8 <92D3 &8 : 3 ; 29= : < 6 ; 5 : @=3 ? : <3 7 ; 9234 92 8 : 3 <3 ; 57 , @8 : 3 6 ; = ; 2 92=9H2 9&9D ; 28 ; 24 92D ; C53 3<= 2 ; 24 7 @D : 49=D<3498 34 C6 : 9= 4 ; 55692H= ? 98 : @<; 8 92 8 : 3 4 ; 6= C3& <3 8 : 3 92=@<<3D89 2 : ; 4 C3H@2, 53 ; <56 : 3 ? @54 C3 2 7 <3 8 : ; 2 ; @ 38 ? <>34 C6 = 7 3 ; =8@83 3<= 2 C3 : 924 8 : 3 B9D3<3H ; 5 8 : < 23, 8 : 3< 2 ; 7 3= =@HH3=834 ? 3<3 8 : =3 &8 : 3 6 @2H 7 34< &8 <8@H ; 5 0= 2 &8 : 3 <92D3. 3H328 - : 2P ; 24 &8 <92D3 3 54 8 : 3 = 2 &8 3<492 ; 24 / &8 9D956, : 3 & < 7 3< ? ; = ; H< ; 24= 2 8 : 3 5 ; 883< ; 23 : 3 ? &8 : ; <53= / , 8 : 8 : 3<3& <3 ? 3<3 23 ; < 8 8 : 3 8 : 9A 23 C@8 C 8 : ? 3<3 & <39H23<= 6 @2H 9 7 8<934 92 7 ; 883<= &8 =8 ; 83 ; 24 @883<56 @2>2 ? 2 8 8 : 3 ; 29 ; <4=, 7 34< A= D5 ; 9 7 = ? 3<3 2 8

) * 33 <83D : 3 999, M,

* 9<=8 D @=92 8 : ; <53= / C392H 8 : 3 = 2 &8 : 3 2& ; 283 @9= ; 24 C< 8 : 3< &% 4 6A= @2& <8@2 ; 83 ? 9&3,

I #' ' ' ' - ' % A' W @ ,
=8< 2H56' @=:34 ' C@8' 8:3) 9D959;2' D @<8' 7;43' ;' =8<32@ @=' ;8837 8'
8 ' & <?;<4'8: =3' &' <92D3' 3 54,' :39<' ;7C;==;4 <.'92' 24 2'
8<934' 8 ' 3259=8' 8:3' =@ <8' &'8:3' 2H59=:' % B3<2 7 328' & <' :97' K
C@8' ;2292H' ;24' ;=853<3;H:' ?3<3' ;2G9 @=' 8 ' ;B 94' ;26' ; 3;<V
;2D3' &'49D8;892H' <43<=' 8 ' ;92 ' ;24' &9<7 56' <3&@=34' 8 ' D @2832;2D3'
8:3' < X3D8,' 3& <3'8:39<' <3 56' D;7 3' 8 ' :;24,' O92H' 3<492;24' O <'
<;8:3<' 8:;8' 54' 928<9H@3<' :9=' = @=' ' ;24' :3<' = 2.92.5;?' 8:3' @>3'
&' <53 .2=P' =328' 8:3', <92D3' 8 ' %9C<;58;<' 2';' 7;2. &.?;<' ?:9D:'
8:36' :;4' C8;9234' &< 7' <,' <@7 7 24' 8:3' <989=:' 7929=83<' ;8'
;53<7 ,' 6'532492H' :9=';94'8 '8:3' 5;2'8:9=' @2?9=3'49 5 7;8';57 =8'
=@DD33434'92' D 7 < 7 9=92H' :9=' H B3<2 7 328,' @8' 7 =8' & <8@2;8356'
@<' <3 <3=328;89B3=' 92' ;92' 29 34' 92' 8:3' C@4' 8:9=' 928<9H@3' ?:9D:'
D @54' 2 8' :;B3' &;9534' 8 '37 C< '8:37'?98:'8:3'-@28;='2 23' &'?: 7'
:;4' 8:3' 53;=8' 5 B3' & <' 8:3' 9D959;2' : @=3,' :32' 8:3' 3 '
;<<9B34';8' %9C<;58;<' W @H@=8' "]' 9<' 3?' ;5<67 53 8:32' X@=8' 2'
8:3' 3B3' &' =8;<892H' & <' <8@H;5 <3&@=34' 8 ' ;55 ?' 8:3' <92D3' 8 '
5;24' <' 8 ' 49=8<9C@83' 8:3' < D5;7;89 2=' ?:9D:' :3' :;4' <3 ;<34,'
:3=3' ?3<3' 8:3' ? <>' &' 3 54A=' C< 8:3<.92.5;?' @9=' :959 3'
&' <53;2=' ?:' ';4';DD 7 ;2934' :97' &< 7' ;53<7 ' ?98:'8:3' 43V
=9H2' &'&9=:92H' 92' 8< @C534' ?;83<=' J,' D<;&8' &' ?:9D:':3' ?;=' 8 '=:?'
:97 =35&' 92' 5;83<,4;6=' ;' ;=8' 7;=83<,' &' 3 54' =:@54' C3D 73'
<3H328' <53;2=' 92832434' 8 ' C3' 8:3' T ?3<' C3:924' 8:3' 8:9C23,A'
;5<67 53' 438;9234'8:3'8? ' <92D3=';8'%9C<;58;<';24'?:32':3'?;='
H 23' <4' 92H? 4'A 8 >'8:3'=;73';8898@43' &':=8953'23@8<;5986,'
9<34' &'43832&9 2' @9=' :959 3';&83<';'&3?'4;6='=;9534'& <' 24 2'
92'8:3'B;92':3' &'7 35892H'8:3':3;<8=' &'8:3' <989=:' ;C9238,' :3'
9D959;2' <92D3'592H3<' '= 73' 8973' < 83=892H' ;H;92=8'8:3'&;=:9 2'
92' ?:9D:':3'?;=8<3;834';24': 5492H'=3D<38'D 55 J@93=' ?98:'4 3 @8J.'
89 2=' ?:9D:'D;73'8 ':97' &< 7' 7;26'J@;<83<=' 92' ?:9D:'8:3'-@28;'
&' 3B9553' ?;=4383=834,' @8'8:3<3' ?;=2 '<3;5' ;<86'92':9=' &;B @<,'
59;8'C323&98'D @54'D 73'8 ' ;92'&< 7'8:3'353D89 2' &';'6 @8:' &'
29238332'?: =3' B3<6'2;73'?;=' @2>2 ?2'8 '8:3' 3 53' ;24'?: '
D @54' :35 '8:37' 2398:3<' ?98:' 732' 2 <' ?98:' 7 236' 2398:3<' ?98:'
8:3'=8;83=7;2=:9 '8:;8'D 73=' &< 7'3G 3<932D3'2 <' ?98:'8:3' 79598;<6'
D; ;D986'8:;8'7@=8'C3'43B35 34' 2'8:3'C;8853.&9354' &83<'<37;92V
92H'5 2H'32 @H:'92' ;29=:'?;83<=' 8 '5 =3';55' :9=' 955@=9 2=,' <92D3

*' ;93<'9=' ?< 2H'92' :92892H'8:;8' ;2292H'5328' :97=35&'8 '8:3' 9D959;2'
=D:3737'09,' ' MP'92' <43<'8 '49= C59H3' ;=853<3;H:,' 5592H? 4A=' 49=V
;8D:3=:?'8:;8':3' =34'98';=' 7@D:';=' 494' ;5<67 53';24'8:3<3C6'?2'
; <B;5&< 7':9=' H B3<2 7 328'>+ 5 *6 '+ ! '99,' $ N' $ P,

M $' ' ' T - ' % A' W @ ,

? @54' : ; B3' C332 ' 2 <' 494' 98' < B943' & <' <3 ; 5' @2986' &' 49<3D89 2' 92' = ' ;D 7 5383' ;' ? ; 6' ; =' ? @54' : ; B3' C33&: ' =3D@<34' C6' 8 : 3' ; 9287328' &' ;' =92H53' 3H328,' @8' 98' : ; 4' 8 : 3' <; D89D ; 5' ; 4B ; 28 ; H3' &' D 2V D959 ; 892H' 8 : 3' B ; <9 @=' < B92D9 ; 5' - @28 ; =K 8 : @H : ' 8 : 36' = ; D<9&9D34' 8 : 39<' 5 D ; 5' = B3<39H286 ' 8 : 36' C8 ; 9234' ; 8' 53 ; =8' 8 : 3' ? 3<' &' 2 7 92 ; 892H' 8 : 39<' ? 2' 7 ; =83<=,' 2' 3 ; D : ' &' 8 : 37 ' 8 : 3' 7 <3' ; D89B3' ; 24' ; 7 C989 @=' 7 37 C3<=' : 34' 8 : ; 8' 8 : 36' 7 9H : 8' =3392H' & <' 8 : 37 V =35B3=' X8 : 3' 5 ; D3=' &' 4353H ; 83=' 8 ' 8 : 3' 23?' =@ <3 7 3' ; ==3 7 C56,' DD <492H56' 8 : 3' - @28 ; =' ? 3<3' 924@D34 ' 23' ; &83<' ; 2 8 : 3<' 8 ' D 2=328' 8 ' 8 : 3' =D : 3 7 3,' @C59D' 929 2' <; 2' = ' =8< 2H56' 92' &; B @<' &' @2986 ' ; 24' 8 : 3' 3G9=892H' ; 4 7 929=8<; 89B3' D : ; =' ? ; =' = ' D53 ; <56' @243=9<; C53 ' 8 : ; 8' 98' ? ; =' 9 7 ==9C53' 8 ' < 83=8' ; H ; 92=8' 8 : 3' D<3 ; 89 2' &' ; ' @ <3 7 3' 328<; 5) - @28 ; ,' 7 3' &' 8 : 3' < B92D3= 2 8 ; C56' @<D9 ; ' / ; 532D9 ; ' ; 24' %<; 2 ; 4 ; =: ? 34' ; ' ; 8<9 89D' = 9<98' &' =35&. ; C23H ; 89 2' ; 24' &; B @<34 ' 8 : 3' < X3D8' &< 7 ' 8 : 3' &9<=8,' B32' % ; 59D9 ; ' ; 24' 3B9553 ' ? : 3<3' 8 : 3' = 9<98' &' ; <89D@5 ; <9 = 7 ' .' =8< 2H3=8 ' 4 ; <34' 2 8' 3256' <3=9=8' 8 : 3' 7 B3 7 328,' : 3<3' ? 3<3' 7 ; 5D 28328=' ? : ' =@HH3=834' 8 : ; 8' ;' &343<; 5' D 2=898@89 2' ? ; =' <3&3<; C53' 8 ' ;' D328<; 59R34' 23 ' ; 24' 8 : ; 8' 98' ? @54' =@&&9D3' & <' 8 : 3' < B92D3=' 8 ' C924' 8 : 37 =35B3=' 8 H38 : 3< C6' 8<3 ; 893=' &' ; 559 ; 2D3 ' 92=83 ; 4' &' : ; 2492H' 8 : 37 =35B3=' B3<' 8 ' ;' 23?56' D<3 ; 834' 3G3D@89B3,' @8' 3B32' 92' <; H 2 ' ? : 3<3' &343<; 5' @29 2' ? 98 : ' ; =8953' =33 7 34' 7 <3' ; 88<; D89B3' 8 ' 7 ; 26' 8 : ; 2' D 7 5383' 92V D < <; 89 2 ' 8 : 3' CB9 @=' 23D3==986' & <' D 7 7 2' ' 7 9598 ; <6' ; D89 2' 4383< 7 9234' 8 : 3' =98@ ; 89 2 ,' B3<6' < B92D3' &' ; 92' ; 8' 5 ; =8' ; 4 : 3<34' 8 ' 8 : 3' < X3D8' & <' D 2=8<@D892H' ; ' @ <3 7 3' 328<; 5' - @28 ; ,' B32' 8 : 3' 2 ; << ? . 7 92434' 5989D9 ; 2=' ; 8' 3B9553' : ; 4' 8 ' ; ==@7 3' ; 2' ; 8898@43' &' : 3 ; <86' D 2=328,' @8' 8 : 39<' <35@D8 ; 2D3' 33 34' @8' 92' 8 : 3' =@HH3=89 2' ? : 9D : ' 8 : 36' 7 ; 43' 8 : ; 8' 8 : 3' - @28 ; ' = : @54' 7 338 ' 2 8' ; 8' ; 4<94 ' C@8' *; 8' 9@4 ; 4' 3 ; 5' <' 57 ; H< ' 92' ; ' ; 2D : ; ' 5 ; D3=' D 2B32932 8' 8 ' 8 : 37 =35B3=' C@8' C=D@<3' ; 24' <37 83' 92' 8 : 3' 363=' &' 92 : ; C98 ; 28=' &' =8@<9 ; =' <' % ; 59D9 ; ,' : 39<' ; B3<=9 2' 8 ' ; 4<94' ? ; =' ; <856' D ; @=34' C6' 98=' ',<37 8323==' &< 7 ' 8 : 39<' . ? 2' C <43<=' C@8' 7@D : ' 7 <3' C6' X3 ; 5 @=6' &' 8 : 3' @2D95' &' ; =8953 ' ? : 9D : ' =8955' : @2H' 8 H38 : 3< ' ; 24' 3G3<D9=34' 5 D ; 5' ; @8 : <986' 92' 8 : 3' D ; 98 ; 5,' 8 : 3<' - @28 ; =' = : ? 34' 8 : 39<' ; B3<=9 2' & <' 8 : 3' @2D95A92' 8 : 3' =; 73' ? ; 6 ' ; 24' @5897 ; 8356' 8 : 3' 5 ; D3' =353D834' & <' 8 : 3' H ; 8 : 3<92H' &' 8 : 3' 23?' H B3<2 7 328' ? ; =' 8 : 3' < 6 ; 5' <3=9432D3' &' <; 2X@3R ' ? : 9D : ' =8 ; 24=.8 ' ; 4<94' 7@D : ' ; =' 4 ' / 3<= ; 9553=' <' 924= <' 8 ' ; <9=' ; 24' 24 2,' : 9=' D : 9D3' ? ; =' ; 2

* 83' 8 : 3' &343<; 59=8' B93?=' &' 8 : 3' <; H 23=3' 9H@35' <92D9 3 ' J@ 834' C6' <83D : 3' 099,' $ P,

CB9 @=' 7 9=8;>3K 8:3' D328<;5 H B3<2 7 328 &';' D @28<6' 5 =3=' 92' 49H2986' ?:32' 98' 4 3=' 2 8' <3=943' 92' 8:3' 2;89 5' 5' D; 98;5,' 8' =337=' 8 ' 49=8<@=8' 98=' ?2' ?3<' <' 98=' 53H;5986 ' ?:32' 98' 3G953=' 98=35&' &< 7 ' 98=' < 3<';C 43,' 8' 8:3' C3=8' 98' D;=8=' ;' =5@<' 2' 8:3' 92:;C98;28=' &' 8:3' D; 98;5' C6' <3&@=92H' 8 ' 8<@=8' 98=35&' ;7 2H' 8:37,' ;4<94 ' 98' 9=' 8<@3 ' 9=' 2 8' 8 ' ;92' ?:;8' ;<9=' 9=' 8 ' <;2D3 ' <' 24 2' 8 ' 2H5;24K 98' 9=' ;' D 7 ;<;89B356' 7 437 ' 5;D3 ' 98D:34' @ 2' C6' :959 ' ';=8:3' =3;8' &' :9=' D @<8 ' C@8' 43=898@83' &';2D9328' 737 <93=,' 3B3<8:353== ' 98' ?;=' ;8' 53;=8' 92&92983 56' =@ 3<9 <' 8 ' <;2X@3R' ;=' ;' 7 33892H. 5;D3,' 2' H3 H<; :9D;5' <'=8<;83H9D;5' H< @24=' 8:36';<3' = ' D5 =3' 8:;8' 2 ' ;4B;28;H3' ;DD<@3=' 8 ' 23' 8:;8' 4 3=' 2 8' C35 2H' 8 ' 8:3' 8:3<,' @8' & <' 5989D;5' <3;= 2=' 8:3' D; 98;5' ?;=' 49=892D856' <3&3<;C53' 8 ' 8:3' ;57 =8' =@C@<C;2' ;5;D3A,' &' 8:3' 3G9=832D3' &' 8:3' @2D95' &' ;=8953' = ' 7@D:' 49=8@<C34' 8:3' -@28;' 98' ? @54' :;B3' C332' J@983' ==9C53' 8 ' 49== 5B3' 8:;8' 49=D<34 9834' C 46,' ' 23' ? @54' :;B3' 7;43' ;26' =3<9 @=' 3&& <8' 92' 98=' &;B @<' 3B32' 92' 8:3' D986' &' 98=' ;C 43,

A' 8:' 5 <94;' 5;2D;' ;24' - B355;2 =' ?3<3' 92' &;B @<' &' 7;>92H' ;4<94' 8:3' 733892H. 5;D3,' :3' 24;5@=9;2=' 43&3;834' 8:37,

7;26 8:92H= ;8 8:3 ::24= & % 4 6 ;24 373<H34 &< 7 ;5 2H 3<9 4 & 97 <9= 27328 ;24 C=D7486 8 8;>3 :9= 5;D3 92 8:3 D @2D95=) & 8:3 2;89 2, 2:; 956 :3 ?;= 8 &924 8:;8 :9= 943;= ?3<3=8955 859 =3 &;7 92 <986 ;24 8:;8 C@<3;@D<;D6 ;24 C=D@<;289=7 ?3<3 433 56 < 834 92 ;92,

& 8:3 8:3< 737C3<= & 8:3 @ <373 -@28; 8:3 ;959&& / ;543R ;24 <;2D9=D ;5;& G &<3=:&9A 7 :9= C< 8:3<= 8<9@7 :=;8 ;<;V H ==; ?3<3 3<:; = 8:3 C3=8 >2 ?2, 7 2H 8:3 <3=8 ?3<3 2 83 ;D 2=943<;C53 2@7C3< & D53<H6 8? ;<D:C9=: =; <9 <;24 8:<33 D;2 2= C@8 2 8 7 <3 8:;2 79H:8 :;B3 C332 3G 3D834 92 ;D @28<6 ?:3<3 8:3 :@<D:9B;= = ?3<&@5, 9598;<6 732 ?3<3 2 8 = =8< 2H56 <3 <3=32834 C392H 256 &9B3 92 2@7C3<;24 8:<33 & 8:3=3 ?3<3 795989;D 5 235=, :3 <3=8 ?3<3 7;9256 5 D;5 2 8;C53= H<;2433= 7;<J@9=3= ;24 D @28= <34 792;834 B3< 73<3 D 7V 7 23<=, 73 &8:3 7 ?3<3 C5924 ;<89D@5;<9=8= ;24 ;&3? 59>3 8:3 49=<3 @8;C53 243 43 9 6 ?3<3 928<9H@3<= ?98:4 @C8&@5 ;283D34328=, :3 ?: 53 C 46 <3 <3=32834 ;92 ?3 32 @H:C@8 ;92 ?98: :3< ?3;>23==3= ;= ?355 89= :3< =8< 2H 928=, 8 ?;=2 8 ;B3<6 < 79=92H 92=8<@7328 ?98:? :9D:8 ;D:93B3 8:3 59C3<;89 2 & 8:3 3292=@5; < 8 <3=9=8 8:3 H<3;83=8 H323<;5 92 @< 3, 2=943<34 ;= ;H B3<2 7328 & 2;89 2;5 43&32D3 98 :;4 &;< 8 598853 7 9598;<6 >2 ?534H3K ;:;R;<4 ;==37C56 & <93=8= 59V 89D9;2= ;24 H<;2433= 9= 2 8 ;4; 834 & < 8:3 D 24@D8 &;?;< & 9243 32432D3, 32D3 D;73 8:3 92D<349C53 C592423== ?:9D: 534 98 8 <3&@=3 8 ; 928 ;=92H53 D 729;243<.92.D:93&; 24 8:3 C=892;D6 ?98: ?:9D: 98 C@<934 98=35& 92 D 2=898@89 2;5 43C;83= & 8:3 7 =8 &@8953 = <8 ?:32 ; 53 2 ?;=8:@243<92H ;8 8:3 H;83= & ;92,

:3 733892H & 8:3 @ <373 -@28; ?;= &9G34 & < 3 837C3< $ C@8 5 2H 3<3 8:;8 4;83 D;73 < @24 8:3 7 9598;<6 =98@;89 2 ?;= ;==@792H 23? 43B35 7328=, :3 &9<=8 7 49&9D;89 2 92 8:3 =8;83 & ;&&;9<= ?;= D;@=34 C6 8:3 ;C <89B3 ;8837 8 & 8:3 ;=J@3 < B92D3= 8 & <33 8:37=35B3=, :3 23?= & ;6532 ::;4 D;@=34 ;= H<3;8 ;=89< 92 8:3 2 <8:3<2 7 @28;92= ;= 92 8:3 = @8: < 8:3 3;=8 & ;92, @8 9=D;6 %@9 @RD ;;24 5;B;:;4 D 2=943<;C53 <32D:H;<<9= 2= ;24 8:3 <38<3;8 & - =3 : 2 ;<83 8 8:3 C< 256 92D<3;=34 8:3 2@7C3< & 3237 93= 92 8:39< 9 7 7349;83 239H:C 7.: 4, 8 ? @54 :;B3 C332 2 53== ;8<9 89D 8:;2 <@4328& < 8:3=3 < B92D3= 8 435;6 8:39< 92=@<<3D89 2 8955 98 :;4 = 73 D:;2D3 & < B92H @=3&@5

* <;D 7 5383 59=8 &8:3 2;73= ;24 < &3==9 2= &8:3 737C3<= &8:3 -@28;=33 8:3 3249G,

M##M]‘ ‘ % ‘ ‘ ‘

M M‘ ‘ T - ‘ % ‘ ‘ E /1*‘ <>

2’8:3‘ C< ,‘ 9>3‘;55‘=D:373=‘8:;8‘;<3‘&<7734‘&< 7‘;‘D 7 < 79=3‘ C38?332‘8:3‘ B93?=‘ &‘=3B3<;5‘ 732‘8:9=‘?;=‘2 8‘;‘ B3<6‘ C<9559;28‘ =8<;83H9 ;5‘3&& <8K‘92=83;4‘ &‘ < B9492H‘&<‘;‘C 54‘=8< >3‘?98:‘8:3‘ ?: 53‘ ;29=:‘;<76‘;8‘= 73‘ 928‘ 2‘8:3‘5 2H‘5923‘C38?332‘ @<H =‘ ;24‘ 95;H< ‘98‘ 73<356‘C< @H:8‘8:3‘92=@<H328‘& <D3=‘92‘:;5&.;.4 R32‘ =3 ;<;83‘D 5@72=‘&;D3‘8 ‘&;D3‘?98:‘8:3‘32376‘ 5;>3‘?98:‘:9=‘ ?2‘ ;<<&96‘;24‘8:3‘ =8@<9;2=‘?;=‘8‘C3‘;=>34‘8 ‘D 2D328<;83‘23;<‘ 3 7 =;‘ ;8‘8:3‘=@<D3=‘ &‘8:3‘ C< .‘;24‘8 ‘3243;B @<‘8 ‘8@<2‘ 3==93<3=K‘ &5;2>‘;24‘ 3238<;83)928 ‘ 9=D;6‘ 3‘? @54‘:;B3‘M# ###‘ 732‘ <‘ 7 <3‘C@8‘2 8‘;‘=92H53‘D 7 5383‘<3H97328‘ &‘D;B;5<6,‘ 3G8‘8 ‘ :97‘ @3=8;‘?;=‘8 ‘ 3<;83‘;H;92=8‘8:3‘&< 28‘ &‘ 3==93<3=K‘D < =‘ ?98:‘:9=‘T‘ 9.76‘ &‘ ;=8953 A‘39H:8‘ <‘2923‘8: @=;24‘<;?‘53B93=‘C;D>34‘ C6‘;C @8‘ ###‘:<=3,‘ 3‘@243<8 >‘8 ‘7;>3‘ @<H ‘43‘ =7,‘ :9=‘ 928‘ &‘=8;<892H,‘ <3‘8 ‘8:3‘3;=8‘ ;=8;2 =‘ B;=‘8 ‘H;8:3<‘ ;8‘ <9;‘8:3‘& @<‘49B9=9 2=‘ &‘8:3‘;<76‘ &‘ 24;5@=9;‘C@8‘;8‘ <3=328‘ :3‘:;4‘ 256‘8:;8‘ &‘ ;‘ 32;‘92‘:;24K‘8:3‘-@28;‘ &‘ 3B9553‘?;=‘ 438;9292H‘8:3‘<3=8,‘ 8955‘7 <3‘8 ‘8:3*‘<9H:8,‘ 5;7;=‘ B98:‘:9=‘M ###‘ /;532D9;2=‘;24‘ @<D9;2=‘?;=‘8 ‘7;<D:‘2‘ @435;,‘ ;=856‘ ;5;& G‘ B98:‘8:3‘;<76‘ &‘ <;H 2‘;24‘8:3‘/;532D9;2‘49B9=9 2‘ &‘ ;928‘ ;<D:‘ ?;=‘8 ‘>33 ‘2 <8:‘ &‘8:3‘ C< ‘;24‘8@<2‘8:3‘53&8‘&5;2>‘ &‘ 2D36A=‘ D < =‘C6‘?;6‘ &‘ ;2H@3=;K‘:3‘D @54‘C<92H‘;C @8‘$ ###‘732‘928 ‘ 5923‘C@8‘8:3<3‘ B3<3‘2 8‘7 <3‘8:;2‘&9B3‘ <‘=9G‘<3H@5;<‘C;88;59 2=‘ ;7 2H‘8:37‘S‘8:3‘ <3=8‘ ?3<3‘ <3D328‘53B93=,‘ :32‘8:3‘;<76‘ &‘ =8<37;4@<;‘=: @54‘D 73‘@ ‘098‘?;=‘8955‘;C @8‘ 5B;=‘;24‘ ;4;X RP‘ 98‘?;=‘8 ‘X 92‘ ;=8;2 =S‘ ;24‘98‘ B;=‘: 34‘8:;8‘8:3‘ 2H59=:‘& <D3=‘ &< 7‘ <8@H;5‘79H:8‘;5=‘C3‘49<3D834‘2‘8:3‘=;73‘ 928,

@8‘73;2?:953‘ 256‘ ###‘732‘?3<3‘;B;95;C53‘92‘8:3‘&9<=8‘5923$;24‘8:9=‘& <D3‘=<3;4‘;5 2H‘8:3‘?: 53‘&< 28‘&< 7‘ 3 7 =;‘8 ‘ ;2H@3=;‘;24‘;D892H‘ 2‘?943‘3G83<2;5‘5923=‘?;=‘2 8‘59>356‘8 ‘7;>3‘ 7@D:‘97 <3==9 2‘ 2‘8:3‘ <32D:‘ :3‘2@7C3<=‘ &‘8:3‘92B;43<=‘ ?3<3‘D 2=943<;C56‘H<3;83<‘8:;2‘8: =3‘ &‘8:3‘ ;8<9 8.;<793=,‘ - @<4;2‘ :;4‘ # ###‘732‘C6‘ 3 837C3<‘ ‘;24‘ ?;=‘C392H‘<392& <D34‘3B3<6‘ 4;6‘C6‘&<3=:‘C;88;59 2=‘8: @H:‘8:3‘8:<33‘D < =‘&< 7‘ %3<7;26‘ B3<3‘=89 ‘&;<‘ &&,‘ 3& <3‘8:3‘ ;29;<4=‘D @54‘7 /3‘:3‘; <3D9;C56‘ @82@7C3<34‘8:37‘ ;24‘ :3‘ :;4‘8:3‘923=897;C53‘ ;4B;28;H3‘ &‘ :5492H‘;‘D 7 ;<;89B356‘=: <8‘&< 28‘;24‘ &*‘C392H‘;C53‘8 ‘D 2V D328<;83‘ 2‘;26‘ 928‘?98:‘&;<‘H<3;83<‘<; 94986‘8:;2‘ B;= ==9C53‘ 8 ‘:9=‘;4B3<=;<93=,‘ (*32‘:;4‘8:36‘8:< ?2‘; ‘8:39<‘& <D3=‘ 2‘ 23‘ =92H53‘ 928‘8:3‘ <32D:‘;:B;6=‘@=92H‘8:3‘T‘9283<9 <‘5923=A‘D @54‘:;B3‘ &‘ ‘ <3&9 ,‘ <83D:3‘=;6=‘8:;8‘:3‘?;=‘8 ‘D 2D328<;83‘;8‘ <;24;,

H 8 8 H38:3< 92 ;' B3<6 =: <8 8973,' :3 256 ?3;>' 928'924334' 92' 8:3)5 32D:' =989 2 ?;=8:;8 3==93<3=A B;2H@;<4;8 @<H =?;=8 ' &;<&<?;<4' ;24 92 = 73 3<95 &C392H 32B35 34' -C38?332 5;>3 ;24 @3=8;,' @8 8:9= 438;D:7328';=?3=:;55 =33'?;=3<3 5 23 4<;(B2C;D>'8 '8:3 C< ,

3& <3'8:3'D;7 ;9H2'C3H;2'8:3' ;29;<4= C8;9234 23 2 8;C53 ;4B;28;H3 8:3<37 B;5 &' @3=8;'&< 7'D 7 7;24' ?2H'8':9= ?2 92 <349C53 ;<< H;2D3 ;24 & 6,' 8 ?955 C3 <3737C3<34 8:;8 :3 <3H;<434'8:3'-@28;=' &' 3 2';24 ;=8953';='<3D;5D98<;28=@C <492;83=' &':9= ?2';24:;4 43D5;<34';55 8:39<;D8= 2@55 ;24 B 94,' :32 8:36 <D33434'59>3 8:3 8:3<-@28;='8 ' 353D8 <3 <3=328;89B3=' & <' 8:3 7 33892H ;8 <;2X@3R' :3?;9834'8955 8:3 43 @893=' &' 3 2 ?39.3 ;==92H 23;<:9= D;7 ' ;24 8:32 =@443256 43=D32434 @ 2 8:37,' 2 28 29 '/;543R'8:3 ;959&& &'8:3 ;583=3 029H:8='';24 8:3 /9RD 243 43 U@928;2955;'?3<3;<<3=834 C6:9=89A 3<=';24=:@8 @ ' 92'8:3 D;=853 &' 3H B9;,' 3';22 @2D34'8:;8 8:36 =: @54 C3 8<934 C6 D @9%8.7;<89;5'& <'&;9592H 92 C34932D3 8'8:39< ;8;92.%323<;5,' :9=';=8 29=:92H ;D8 &' <3=@7 89 2 4<3?'4 ?2 2 :97'8:3 ?<;8:' &'8:3 @ <373 -@28;' ?:9D:';?;=2;8@<;556 3;H3<8' < 83D8 98=' 737C3<= &< 7'8:3 9283<&3<32D3 &'8:3 7 9598;<6 ;<7,' 57 =8 98=' &9<=8 ;D8 2 ;==37C592H ?;=8' <43<:97'8' ; 3;<;8 <;2X@3R' ;24 8' =@= 324:97'&< 7'D 7 7;24,' @3=8;' ? @54:;B3H 59>34 8' <3=9=8'C@8 >2 ?92H 8:;8:9= ?2 ;<76?;=?3;>' ;24 8:;8 5;>3 ;24 ;=8;&9 =?3<3 :9= C9883<323793=':3::4 8' 6954,' 3 D;73 8' <;2X@3R';24?;=@ 3<=3434 C6 %323<;5 H@9;,' /;543R';24 U@928;2955;'?3<3 97 7349;8356 <353;=34';24 8 >'8:39<=3;8=92'8:3 @ <373 -@28;

:3 =3==9 2= &'8:;8C 46:;4C3H@2 2 3 837C3<. ' ?3286.' & @< 737C3<= @8 &'8:3 43=9H2;834'8:9<86.&9B3 :;4 ;==37C534 2 8:;8 4;6';24;&83<;'= 5372 <359H9 @= D3<37 26:;4<3. < D5;97 34 3<492;24 / ';24 353D834 5 <94;' 5;2D;';= 8:39< <3=94328,' :36 8:32 < D33434 8' 2 792;83';' ;C9238'D: =32 3289<356 &< 7' @8=943 8:39< ?2 C 46,' 2 34<' 3B;55 =?;=8' C3 929=83< &' <39H2 &&;9<=A :3::4 =3<B34 3<492;24 / '92'8:;8 D; ;D986' C@8:;4 =79<D:34 :9= <3 @8;89 2 C6 :9= =@C79==9 2 8' 2; ;<83 ;&83<8:3 8<3;D:3<6;8 ;6 223,' ?3B3<:9='92H329 @=X@=89&9D;89 2

* 9= B3<6 35;C <;83 B9249D;89 2 &':97=35& D;2 C3 <3;4 92':9= ;7 :538 & 3 837C3<' M##M'?:9D:';?;=8<;2=5;834 928) 2H59=:'92'8:3=;73 ?9283<';24 <3 <92834 92 24 2,' 8 D 28;92=;'H 4;DD 228 &'8:3 ;6 223 C@=923==' ;24 7;26 B;5@;C53 =8;83 ; 3<=,

MN#' ' T - ' % A' ' ' E &*'5 '

&' :9=' D 24@D8' ;24' :9=' 3;<56' 43=3<89 2' &' 092H' - =3 :' ?3<3' ;55 ?34' 8' =3<B3' ;=' ;2' ;43J@;83' 43&32D3,' 2' 28 29J' =D;2' ?;=''
929=83X' &' ;<923' 2' 3298' 3<7 94;' 929=83<' &.-@=89D3' 2' <;2D9=D' 43' ;;B34<;' 929=83<' &' 8:3' 283<9 <,' :3' 7 =8' 97V
<8;28' 5;D3' &' ;55' 8:;8' &' 929=83<' &' \ ;<' ?;=' H9B32' 8' ;2' @883<56' @2>2 ?2' 3<= 2,' %323<;5' 28 29' <235' 92=83;4' &' 8' ;26' &' 85 3' &&9D3<=' ?:' :;4' 49=892H@9=:34' 8:37=35B3=' 4@<92H' 8:3' <3D328' D;7 ;9H2=,' 3' ?;=' 8' C3' ;9434' C6,';' =@ <373' D @2D95' &' ?;<' D 2=9=892H' &' =9G' 737C3<=' &' 8:3' -@28;' 8:<33' &' ?: 7' ?3<3' D9B959;2=' ?98: @8' ;26' 79598;<6' >2 ?534H3' ?:;83B3<,' ' 9283289 2' &' ; 92892H' ;' D 7 7;243<.92.D:93&' ?;=' =: ?2' ;24' 8:3' 929=83<' &' ;<' D <<3= 2434' 49<3D856' ?98:' ;55' 8:3' H323<;5=' 92' D:;<H3' &' 8:3' < B92D9;5';<793=,' 8:92H' D @54' :;B3' C332' 7 <3' 955' X@4H34$' &< 7' 8:3' ?;28' &';' =92H53' :;24';8' 8:3' :357';55' 8:3' 2D 792H' 3<;89 2=' ?3<3' 4 734' 8' 923B98;C53' &;95@<3,' :3' =@ <373' 49<3D89 2' ?;=' 2 792;556' 328<@=834' 8' 8:3' C=D@<3' ?;<.7929=83<';94' :9=' D @2D955 <=' <3;556' 98' 5;6' ?98:' 8:3' H323<;5=' 92' 8:3' &9354' ?:' C3634' <43<=' &< 7' :3;4' J@;<83<=' 256' X@=8' ;=' 7 @D:' ;=' 8:36' D: =3,' ;D:' 5;634' :9=' ?2' H;73' ;24' 8:3' <3=@58' ?;=' 49=;=83<,

'H5;2D3' ;8' 8:3' =@CX3D8=' ?:9D:' ?3<3' 49=D@==34' C6' 8:3' 737C3<=' &' 8:3' -@28;' 4B@22H' 98=' &9<=8' ?33>=' &' =3==9 2' =@&&9D3=' 8' =: ?' 8:3' =: <8V =9H:8342 3==' &' 8:39<' 59D6' ;24' 8:39<' @883<' 92;C9598 6' 8' H<;=' 8:3' =98@;89 2,' :36' =: @54' :;B3' <373 7C3<34' 8:;' 8:36' ?3<3' ;' H B3<2V 7328' &' 2;89 2;5' 43&32D3' ?: =3' 7;92' 4@86' ?;=' 8:3' 3G @5=9 2' &' 8:3' <32D:' &< 7' 8:3' = 95' &' ;92,' @8' 7 9598;<6' =@CX3D8=' &@<29=:34' 8:3' =7;553=8' <89 2' &' 8:39<' =@CX3D8=' &' 43C;83,' :36' @C59=:34' 924334' ;' 7;29&3=8' 8' 8:3' 3&&3D8' 8:;8' 8:36' 92832434' 8' 53B6' ;2' ;<76' &' ## ###' & 8' ;24' # ###' :<33 ;' 7@D:' H<3;83<' & <D3' 8:;2' ;92' 92' :3<7 =8' &5 @<9=:92H' 4;6=' D @54' :;B3' <;9=34' <' 7;928;9234,' @8' 8:9=' ; 3<";<76' ?;=' 23B3<' =332' 92' 8:3' &9354' 53==' 8:;2';' 8:9<4' &' 8:3' 2@7C3<' ?3<3' @243<' ;<7=' ;8' 8:3' 7 7328' 92' 3D37C3<' ?:32' 8:3' -@28;':;4;8' &56' &< 7' <;2X@3Q9' C3& <3' 8:3' ;4B;2D92H' 53H9 2=' &' ; 53 2,' <' ?;=' 98' 59>356' 8:;8';' H<3;8' ;<76' D @54' C3' <;9=34' 3J@9 34' ;24' 49=D9 59234' ?:953' 8:3' D328<;5' HUB37<;328' ?;=' 43B 892H' 8:3' H<3;83<' ;<8' &' 98=' ;883289 2' 8' &@8959893=,' :3' 7 =8' D<@35' D 7 7328' 2' 98=' ? <>' 593=' 92' 8:3' &;D8' 8:;8' 98=' 8< =' ?3<3' 955' &8@29=:34' C;456';<734';24' :;58' =8;<B34' ;8' 8:3' 7 7328' ?:32' 8:3' < B92D3=' ?3<3' 4 92H' 8:39<' C3=8' 8' < B943' 3J@9 7328' ;24' 3B3<6' <8' 92' ;92' ?;=' H <H34' ?98:' D;22 2' 7@=>38=' 7@2989 2=' ;24' =8 <3=' =328' &< 7' 2H5;24 ;' H<3;8' ;<8

&' 8:37' 43=89234' 8 ' &;55' 928 ' 8:3' :;24=' &' 8:3' 9.32D:,' ;<856' &< 7 XB;28' &' 3G 3<932D3' C@8' =8955' 7 <3' &< 7' ?;28' &' 323<H6' 8:3' -@28;' &;9534' 8 ' @=3' 8:3' 2;89 2;5 328:@=9;=7' ;24' 8:3' D 2=943<;C53')3= @<D3=' 5;D34';8' 98=' 49= =;5,

/:32' ?3' 5 >' ;8' 8:3' 7;92' 8 9D=' &' 98=' 43C;83=' ?3' C3H92' 8 ' @243<=8;24' 98=' &;95@<3=,' 'H 4' 43;5' &' 8973' ?;=' = 328' 92' B 892H' : 2 <;<6' 49=892D89 2=' 8 ' 98=' ?2' 737C3<=,' :3' <3=94328' ?;=' 8 ' C3' ;44<3==34' ;=' T' :9=' :9H:23==A' 8:3' -@28;' ;=' ;' D < <;89 2' ?;=' T' 98=' 7;X3=86A' 9&' ?3' 7;6' @=3' 8:3' 5@49D< @=' :<;=3,' ;D:' 737C3<' C3D;73' T' :9=' 3GD35532D6' A' ;24' <3D39B34' 8:3' 59C3<;5' =;5;<6' &' $### ###' <3;5='04d*5 $###P' C3=943=' 8:3' <9H:8' &' ?3;<92H' 2' :9=' C<3;=8' ;' H 54' 5;J@3' ?98:' ;2' 37C ==34' <3 <3=328;89 2' &' 8:3' 3;=83<2' ;24' ?3=83<2' :379=:3<3=,' :3<3' ?;=';' H 4' 43;5' &' 49=32=92H' &' 5;D3=' ;24' ;8< 2;H3' 92' 8:3' ;<76' ;24' 8:3' D9B95' =3<B9D3' ;7 2H' <35;89B3=' ;24' 43 32432D93=' &' T8:39<' 3GD35532D93=A' C@8' 2 8' 7 <3' 3<:; =' 8:;2' :; 32=' 92' 8:3<' D 978<93=' 92' ?;<.8973' ?:32' ;' 23?' H B3<2732D8' D 73=' 92,' 8' 53;=8' 8:3' D:;2H3=' 534' 8 ' 8:3' H38892H' <94' &';' H 4' 7;26' &' % 4 6A=' 54*' C@<3;@D<;8=,' :3' <3;5' &;@58' &' 8:3' -@28;' 5;6' 92' 98=' <3;4923==' 8 ' &;55' 928 ' &;D89 2=' ;24' &9H:8' B3<' D 2=898@89 2;5' J@3=89 2=' 8:;8' =: @54' :;B3' C332' <353H;834' 8 ' 8973=' &' 3;D3,' 7 2H' 8:3' 8:9<86.&9B3' 737C3<=' &' 8:3' -@28;' ;' D53;<' 7;X <986' ?3<3' 59>3' 8:39<' <3=94328' 5 <94;' 5;2D;' ;29;<4=' &' 8:3' 54' =D: 5' ?: =3' 943;=' &' H B3<2732D8' ?3<3' 8: =3' &' 8:3' ;@8 V D<;89D' = <8' 8:;8' :;4' <3B;9534' @243<' 5C3< 29' ;24' :;<53=' ,' :365 >34' @ 2' ;55' 922 B;89 2=' ;=' 892H34' ?98:' 8:3' 9= 2' &' 8:3' <32D:' 3B 5@89 2' ;24' =;B @<92H' &' -;D C929=7' ;24' 92&9435986,' 2' 8:3' 8:3<' :;24' 8:3<3' ?;=' ;' ?3<&@5' 792 <986' :3;434' C6' - B3 ;2 =' ;24' 92D5@492H' ;<892' 43' %;<;6' 8:3' =3D<38;96' &' 8:3' -@28;' 8:3' ;<J@9=' &' ;7 ' ;H<;4) /;543=' ;5B ' 43' R;=' ;24' 8:3<=' ?:' :354' 7 <3' 7 437' B93?=' ;24': 34' 8:;8' 8:&3' 7;92' <3=@58' &' 8:3' ?;<? @54' C3' 8 ' 7;>3' ;92';' D 2=898@89 2;5' 7 2;<D:6' &' 8:3' 2H59=:' 86 3,' ?' &;<8:9=' 4<3;7' ?;=' &< 7' <3;59R;89 2' ?;=' =:?2' C6' 8:3' &;D8' 8:;8' ;7 2H' 8:3' &9<=8' 73;=@<3=' ;==34' 8:< @H:' 8:3' @ <373' -@28;' ?3<3' <492;2D3=' ;55 ?92H' 8:3' -3=@98=' 03G 35534' 5 2H' =92D3' C6' :;<53=' P' 8 ' <3897 2' 8 ' ;92' <3D<3;892H' 8:3' &&9D3' &' 2J@9=98 <.%323<;5' ;24' =@= 32492H' 8:3' 59C3<86' &' 8:3' K<3==,' @D:' 73;=@<3=' &9553' 8:3' 59C3<;5' =3D89 2' 92' 8:3' -@28;' ?98:' 43= ;9<' C6' =: ?92H' 8:3' 2;<< ?' ;24' <3;D89 2;<6' B93?=' &' 8:3' 7;X <986,' @8' 8:3' H<3;83<' ;<8' &' 8:3' 8973' = 328' 92' =3==9 2' C6' T 98=' 7;X3=86A' ?;=' ?;=834' 2' @<356' D 2=898@89 2;5' J@3=89 2=,

;' X@=8' 49<3D89 2' 8 ' 8:3' @C59D' 7924 ' 8:3' H B3<2 7 328' ?955' C3' T32;C534' 8 ' 3=8;C59=:' 8:3' 9283<2;5' :; 923==' &' ;92' < 7 ' ;2 8:3<' &&9D9;5' 4 D@7328' ?3' 53;<2' 8:;8*' T;7 2H' 8:3' 7 =8' H<;B3' ;24' @<H328' CX3D8=' &' 8:3' ;883289 2' &' 8:3' 328<;5'-@28;' ?955' C3' 8:3' 32D @<;H37328' &',;H9)9D@58@<3 ' 8:3' ;<8=' D 7 7 3<D3 ' ;24' 2;B9H;V 89 2' J

53;<56' 2 8:92H' D @54' C3' 92C<3' 92; < <9;83' ;24' ;C=@<4' 8:;2' 8:;8' 8:9=' H B3<2 7 328' &' 2;89 2;5' 43&32D3' =: @54' 8@<2' 98=' ;883289 2' 8C' =@CX3D8=' =@D:' ;=' 8:3' <3& <7 ' &' 2;89 2;5' 34@D;89 2 ' <' 8:3' 32V D @<;H37328' &' 8:3' ;98=,' 8' 9=' 3J@;556' D3<8;92' 8:;8' 9&' 98' =: @54' < =3' 8 ' T' D 2=943<' 8:3' D:;2H3=' 23D3==;<6' 92' @<' ;2D9328' 5;?=A' 98' ? @54' C3' H 92H' C36 24' 98=' D 7 3832D35' & <' =@D:' C@=923==' C35 2H34' 256' 8 ' ;' 3<7;2328' ;24' < 3<56' D 2=898@834' 2;89 2;5' ;==37C56' =@D:' ;=' 8:3' <83=,' :9=' ?;=' 2 8' 8:3' 8973' & <' D 2=898@89 2;5' 43C;83=' 2 <' ?;=' 8:3' 328<;5'-@28;' 8:3' C 46' 8:;8' =: @54' :;B3' =8;9.834' 8:37,' 55' 8:39<' 323<H93=' =: @54' :;B3' C332' 43B 834' 8 ' 8:3' ?;<,' @8' 79=534' ;=' 8 ' 8:3' =98@;89 2' C6' 8:3' 5 2H' J@93=D32D3' &' 8:3' <32D:' ;<76' 2' 8:3' C< ' 8:36' 8@<234' 8:39<' 7924=' 8 ' 3B3<6' 8 9D' 8:;8' =: @54' :;B3' C332' ;B 9434 ' ;24' 23H53D834' 8:3' =92H53' 23' 8:;8' =: @54' ;5?;6=' :;B3' C332' C3& <3' 8:39<' 363=,' 8' ?;=' 92' B;92' 8:;8' ;5B ' 43' R;=' 8:3' <;H 23=3' 43 @86 ' ;24' ;' &3?' 7 <3 ' 8<934' 8 ' >33 ' 8:39<' D 553;H@3=' 8 ' 8:3' 928,' :3' 7 ;X <986' &355' 8 ' 43C;892H' 2' 8:3' =@CX3D8=' 2' ?:9D:' 8:3' 43= 89D' ;24' 8:3' 59C3<;5' 8:3 <93=' &' H B3<2 7 328' D5;=:' ;24' = 328' 8:37=35B3=' 2' 49=D@==9 2=' 8:;8' ?3<3' ;=' :3;834' ;=' 8:36' ?3<3' &@8953,' 3;2?:953' 8:3' 897 3' 8:;8' =: @54' :;B3' C332' 8@<234' 8 ' ;DD @28' ?;=' =59 92H' ;?;6' ;24' 8:3' ;<76' ?;=' 2 8' C392H' <392& <D34,' ' H5;2D3' ;8' 8:3' &9354.=8;83=' &' 8:3' ;29=:' 8< =' D 7 ;<92H' 8: =3' &' @H@=8' ' ?98:' 8: =3' &' B37C3<' ' =@&&9D932856' < B3=' 8:9=,' :3' < B92D3=' ?:9D:' :;4' C332' <3D B3<34' C6' 8:3' <38<3;8' &' 8:3' <32D:' 8 ' 8:3' C< ' ?3<3' 2 8' 4 92H' 8:39<' 4@86,' :3' ?943' ;24' @5 @=' <3H9 2=' &' 54' ;=8953' ;24' 3 2' :;4' =328' L N##' 732' 8 ' 9 ' 3D ' 92' -@56K' 92' D8 C3<' 8:36' :;4' 53==' 8:;2' $ ###' @243<' ;<7=`;' < 7 ' 3?' ;=8953' 8:3<3' =337' 8 ' :;B3

* ;29&3=8 ' &' 8:3' -@28;' 8 ' 8:3' ;29=:' 3 53 ' D8,' $N,

' ' ' &' D8,' M' ;' I# ,

* ; 93<' 9=' 2 8' J@983' D <<3D8' 92' =;692H' 09,' $"IP' 8:;8' T' 3 2' 23B3<' <;9=34' ;' =92H53' = 5493<' & <' 8:3' D;@=3,A' 8' :;4' 8:<33' C;88;59 2=' &' B 5@2833<=' 0$ L## 732P' ;8' 9 ' 3D ' ;24' <;9=34' & @<' 7 <3' ;8' 3 2 ' Q;7 <;' 343=7;' ;24' 32;B3283' 92' 3 837C3<' ; ' $' 3 8,' $MP,' @8' 8:9=' ?;=' ;' <' D 28<9C@89 2' & <' ;' >92H4 7 ' &' & @<' < B92D3=' ;24' N$# ### = @5=,

INL' ' T- ' % A' ' ' E &*';A

C332'<;9=34'2 8:92H'7 <3'8:;2'&@<'C;88359 2='&' ;4<94'/ 5@2833<='

;'?3;>'D;B;5<6'<3H97328';24'8? ' 0030' '+ N ' '+ '

;24'3 ' '+ 'W;8';26'<;83':'8< ='C@8'8:3=3';<3'8'C3'

&@24'<3D <434'92'8:3'59=8=' &'8593';<79'8:;8&@H:8'92' D8 C3<'

B37C3<';24' 3D37C3<' M#N,' B32';55 ?92H'8:;8' 3?' ;=8953'

7;6':;B3'=@ 5934'<3D<@98='8'98=' 9B2'D<=' &'37C 4934'7 95989;'

=3<B92H'?98:'8:3' 24;5@=9;2';<76' 98'9=' D53;<8:;8'?98:';' @V

5;89 2' &' $## ###'=@5='98' @H:8'8':;B3'4 23'7@D:'7 <3'92'

<;9=92H'23?'<3H97328=,' 24'8:9=' ?;=8:3'49=8<9D8'92':=3'B3<6'

17 94=8'8:3'-@28;'?;=' =98892H' :;8' 598853'?39=' 4 23'92' ;4<94'

=337=' 8':;B3'C332'7;9256'8:3'<3=@58' &'<9B;83'3283<'<9=3K'8:3'

1 N '&<' D8 C3<'9=' &@55' &'B 5@28;<6'4 2;89 2=' &':<=3='

=;445396';24'7 236'&<'8:3'3J@9 7328' &';'D<=' &'4<;H 2='

&<'8:3';<76' &' 54' ;=8953';24' &'=97 95;<'H9&8='<3D39B34'C6' ;5B'

43' R;=' &<'8:3';<76' &' <;H 2,' @8'8:3<3';<3'2'=9H2=' &'

<3J@9=989 2='C6'8:3'H B3<2 7328'&<'8:3' @< =3' &'<;9=92H';2';<76'

&' 3?' ;=8953'?:9D:'D @54'D3<8;9256':;B3'C332'4 23,' :3'>92HV

4 7'?98:'98='&9B3' < B92D3=' @H:8'8':;B3'H9B32'L# ###' 732'92=83;4'

&'L ###K' & <' =8@<9;='?)98:' 256'I # ###' =@5='':;4'<;9=34' I*###K'

<;H 2'?98:'N # ###';4' 5;D34'2'53==8:;2'I$ ###' 53B93='92'8:3'

&9354K';24' =8<37;4@<;'?98:'L$# ###';4'=328'8'8:3'&< 28' $ ###'

732'C6' D8 C3<'?:953'>33 92H' # ###' 7 <3' &'@24<95534'<3D<@98='

92'98='43 8=' 3?' ;=8953';=?3':;B3';5<3;46':;4' DD;=9 2'8'

<37;<>':;4' $## ###'92:;C98;28='';24'638':;4' 256';4434'8'98='

<9H92;5'&9B3'C;88;59 2=' &'7 95989;'=9G'7 <3' &'B 5@2833<='';24';'

=92H53'<3H97328' &':<=3';8'8:3'7 7328'?:32' ; 53 2A=';<793='

D;73'&5 492H';D<==8:3' C<,' :3' 328<;5'-@28;A=';@8: <986'92'

24;5@=9;' <'%;59D9;'?;=' 7@D:'597 9834'C6'8:3'=97B9B;5' &'8:3'

;7C989 @='5 D;5'-@28;=,' @8'92' 3 2';24'8:3'8?' ';=8953='8:3<3

?;='?:32' 2D3' @3=8;':;4'C332'H 8' @8' &'8:3'?;6'2'<9B;5' ?3<

' '=33'2' < &'8:;8'3B32'8:9='?;=' 4 23,' :3<3'?3<3' 256'&9B3' &'8:37'

8:3' # ' ' &' @32D;' 534' 9@4;4' 3;5' 5D;R;<' 43' 2'-@;2'

;24' 9H@32R;,' 534';24' 5D;R;<:;4'N '";24'N"N'@243<;<7=';8'8:3'8973'

&';6532';24' 256'N## 3;D:';;<32856'92' B,' M#M,' 33' <83D:3'

999,'L"N,

* <'8:3' =8@<9;2='33'8:3'8;C53'92' <83D:3'099,'N P'8:36'?3<3'=8955' # ###'

=8< 2H';&83<:;B92H'=:;<34'92' 5;>3A=49=;=8<@=D;7 ;9H2,' <'8:3' =8<37;.'

4@<;2=D 7 ;<3'8:3'59=8' &'<3H97328=';9=34'92'8:3' ' ' &' D8,'$'

H9B92H';'8 8;5' &'$I N## 732'?98:'8:3';D8@;5'7 <292H'=8;83' &'8:3' =8<37;.'

4@<;2)8< =';8' ;4<94'2'8:39<?;6'8'@<H='$MLN'92';55'H9B32'92'

<83D:3'0999,'L P.

M#M] U - A MN

92 8 : 3 &9354, 23 8 ,C5; 7 3 C@8 8593 D328<;5 H B3<2 7 328 9&
8 : 3 &((55 <3= @<D3= &8 : =3 <3H9 2= 3<N : 8 @8959R34 92 3 83 7 C3<$
D8 C3< ; 24 B3 7 C3< " : 3 &9HO = : <3 <3=328;89B3= ; 8 ; 4<94
=; ?; 8 : 9= ; 24 494)8 : 39<A C3=8 8 =89< @ 8 : 3 -@28;, @8 98 ? ;=
2 8 59>356 8 : ;8 7 3<3 & <39H23<= ? @54 =@DD334 ? : 3<3 ;=8;2 = ;24
8 : 3 8 : 3< 7 <3 323<H389D -929= : &&9D3<= : ;4 &;9534, 5<3;46 92
D8 C3< 8 : 3 =98@;89 2 ; 3;<34 7 =8@2 < 7 9=92HK T 3 : ;B3 7 ;43
<3 3;834 <3 <3=328;89 2=A ? 83 <,,, 8@;<8 8 : 3 <989= : 7929=83< *;24 : ;B3 H9B32 92 ; 3< ;&83< ; 3< 8 C8;92 = 738 : 92H 59>3 < 7 898@43 ;24 B9H @<K C@8 8 : @H : 5 ;434 ?98 : &;9< < 79=3= 92 8 : 3 D 7 732D37328 ?3 =D;<D356 J@98 8 : 3 737C3<= &8 : 3 -@28; C3& <3 8 : 39< ;883289 2 9= ;C= <C34 92 3886 @<=@98= ;24 92 ?<;2H592H ? : 9D : 97 343= 3B32 8 : 3 =97 53=8 ;<<;2H37328= 23D3==;<6 & < 8 : 3 9283<9 < H B3<2 7 328 &8 : 3 D @28<6,, , , 2 = : <8 ?3 ;<3 4 92H ? : ;8 ?3 *D;2 2 8 ? : ;8 ?3 ?9= : K ;24 ;==@<3 6 @ ?3 : ;B3 92&;7 @= 8 5= 8 ? <> ?98 : G;D856 8 : 3 =;73 97 <3==9 2 9= < 4@D34 C6 ;=8@46 &8 : 3 49= ;8D : 3= & <4 9559;7 - 3@892D> @< 7 9598;<6 <3 <3=328;89B3 ;8 ;4<94 ;24 &8 : 3 49;<6 & 9< : ;<53= / ;@H : ;2 ? : D;<3&@556 ;8832434 ;24 & 55 ?34 8 : 3 43C;83= &8 : 3 328<;5) -@28; ;8 <;2X@3R, 8 ?;= D53;< 8 ;26 49= ;==9 2;83 C=3<B3< 8 : ;8 8973 ?;= *C392H ?;=834 ;24 8 : ;8 8 : 3 C3=8 ?;= 2 8 C392H 4 23 ?98 : 8 : 3 ;B;95;C53 7 ;83<9;5,

: 9= ?;= ;55 8 : 3 7 <3 923GD@=;C53 C3D;@=3 8 : 3 2;89 2 ?;= 8 : < @H : 56 92 3;<23=8 3924 <3 ;<34 8 7 ;>3 ;26 =;D<9&9D3=, : 3 B 5@28;<6 D 28<9C@89 2= 7 ;43 C 8 : C6 < B92D3= ;24 C6 9249B94@;5= ?3<3 ;=8 @2492H ?:32 8 : 3 B3<86 & ;92 9= 8;>32 928 D 2=943<;V 89 2 8 ?;= 8 : 3 323<H6 ;24 ?955 8 @=3 8 : 37 2 8 : 3 ;<8 & 8 : 3 53;43<= 8 : ;8 ?;= ?;2892H, <3 B3< 2H5;24 "?;= @<92H 92 =@ 593= & ;55 = <8=K C3& <3 B37C3< N =:3 : ;4 328 ;8 53;=8 $$ ### 7@=>38= ;24 8 : 3< 7 9598;<6 3J@9 7328 & ;55 >924= 8 8 : 3 B;5@3 &=3B3<;5 :@24<34 8 : @=;24 @24=, 3& <3 8 : 3 =;73 4;83 =:3 : ;4 & <?;<434 L $ ### 4 55;<= 92 : ;<4 D;=: ` ;24 <, <3<3 8 : 3 23?56 ; 92834 7929=83< C< @H : 8 ;2 8 : 3< 79559 2 8 <@22;,

8@;<8 8 <3 &< 7 ;4<94 D8, M M#M,

* < 438;95= =33 8 : 3 8;C53= 92 <H@3553= ;24 8 : 3 H<;28= <3D <434 92 8 : 3 & < 3 837C3< D8 C3< ;24 B37C3<,

= 8;>3 8 : 3=3 &9H@<3= ;= 8 ? : ;8 : ;4 C332 ;D8@;556 <3D39B34 &< 7 / ;@H : ;2 ? : ? ;= ;8 ;4<94 92 D 2=8;28 D 7 7@29D;89 2 ?98 : 8@;<8 ;24 32892D>, : 36 <3 <3=328 ? : ;8 : ;4 C332 ;94 B3< ;24 ;D>2 ?534H34 2 8 ? : ;8 : ;4 C332 < 79=34 < < B9434 ;24 7;6 C3 8;>32 ;= ;DD@<;83,

' T - ' % A' ' ' W B,' "

2=83;4' &' @8959R92H' 3B396' ==9C53' <3= @<D3' 8:3' H B3<2 7 328' ?328' 2' 43C;892H' ;C @8' 8:92H=' @23==3289;5' ;=' 9&' 8:3' ?;<:;4' C332' 32434' ;8' ;6532,' 8' ? @54' 2398:3<' D 24@D8' 8:3' 23?' D;7 ;9H2' 98=35&' 2 <' ; 928' ;' =92H53' D 7 7;243<.92.D:93&' 8 ' D 24@D8' 98' 92' 98=' C3:;5&,' 98:';bP= 5@83' 8<@8:' 5 235' %<;:;7' ?< 83' C< 7' 8:3' :3;4' J@;<83<=' &' 8:3' <7 6' &' 8:3' 328<3' 8:;8' T' 8:3' 79=3<;C53' =6=837' 3=8;C59=:34' C6' 8:3' -@ 8;' ?;=' ;8' 8:3' C 88 7' &' ;55' 79=& <8@23=,' ' 98934' <' ;=8;2 =';24' <' ;92';24' D;73';?;6' 49=H@=834' 8 ' 8:3' H<3;83=8' 43H<33

' %<;:;7' 8 ' <3' &< 7' @435;' B,' " ' M#M,

3GD3 89 2;5' =3B3<986' 79H:86'D5 =3' 8:3' ?;83<?;6' C38?332' Q3;5;24'
;24' D;29;,' B32'8:32';2';8837 8'8 '7;>3';'4;=:';8' 35=92HC <H'
<' ;57 '? @54'92B 5B3'='7;26'49&&9D@5893=';24'4;2H3<='8:;8'&3?'
H323<;5='? @54':;B3'D;<34'8 '<9=>'98,

;' 7;2;A=' D < =' & <734' ;<8' &' ;2' ;<76' @243<' ;<=:;5'
37;4 883' ?:=3' =:3<3' &' D 77;24' 3G832434' ;' B3<'8:3'
=@8:.?3=83<2'=:<3=' &'8:3' ;589D';24'?:=3':3;4'J@;<83<='?3<3'
=7389733=';8' D:53=?9H';24'=7389733=';8' 89C3D>' <' 8<;5=24,'
3';:4'D 2=943<;C53' <32D:';24' @8D:'D 2892H328='C@8'8:3'
C@5>' &':9=' & <D3'D 2=9=834' &'I### ###' ;23=,' 2' <3 ;<;89 2'& <'
; 53 2A=' =D:373';H;92=8'8:3' ;29=:' @<C 2='';' 7;2;A='
& <D3=' :;4' C332' D;&3&@ 6' =D;883<34' C38?332' -@85;24' ;24'8:3'
;29=:' =53='=' 8:;8'8:3<3'?;=' 2 '5;<H3'D328<;5'C 46'D 2D328<;834'
@243<'8:3' ;<J@9=A=' ?2':;24,' :3'H;<<9=2=' &'8:3' ;29=:'
<3H97328=' ?3<3'9283<= 3<=34' C38?332'8:=3' &' ;29=:'8< ='='
8:;8'98' ? @54'C3'49&&9D@58'8 'H38'8:37'8 H38:3<,' 2' ;<D:' M#M%
?:32'8:3' 7 3<'<':;4';8'5;=8'=:?2':9=':;24'C6'8:3'8<3;D:3< @='
=39R@<3' &' ;7 35@2;' ;<D35 2;';24' 9H@3<;='8:3'8< ='&' ;'
7;2;'?3<3'D;28 234';=' & 55 ?=,' 9G' C;88;59 2='?3<3'92'8:3'
9=5;24' &'Q3;5;24'7;9256'92';24';C @8'8:3' 54'<6;5'<3=9432D3' &'
3=>9543' @<' C;88;59 2=';24'8? 'D;B;5<6'<3H97328='?3<3'92'
99232'8:3'D328<;5'9=5;24' &'8:3' ;29=:' @ ';24'?98:'8:37'
' 7;2;':97=35&'?:=3':3;4'J@;<83<='?3<3';8' 6C <H' 23'
C;88;59 2'5;6'92'8:3'9=5;24' &' ;2H35;24'D5 =3'8 '8:3'=@8:'D ;=8'
&' 99232`;' 2'8:3' 7;925;24' &'-@85;24' B3<3 8:<33' D;B;5<6'
<3H97328=';24'8:<33'C;88;59 2=' &'92&;28<6' J@;<83<34'92'8:3'598853'
8 ?2=';8'8:3'=@8:3<2'324' &'8:3' ;883H;8 <343<9D9;' ;<:@@='';24'
;243<=,' 2'Q3;5;24'8:3'L ###' ;29;<4=' ?3<3'@243<'8:3'363=' &'
8:3\'7;92' ;29=:';<76' &' C=3<B;89 2';H;92=8' ?3432,' 2' 99232'
;' 7;2;A=' L ##':<=3';24'& 8'?3<3'D;28 234'92'=7;55'438;D:V
7328='?:953';'=594'C 46' &'I### ;23=' H;<<9= 234' 432=3'92'
8:3'D328<3' &'8:3'9=5;24'=3 ;<;892H'8:3' ;29=:'<3H97328=' 23'&< 7'
;2 8:3<,' 2' ;2H35;24';5 2H'?98:'8:3' ;8;5 29;2'59H:8'C;88;59 2'
?3<3';'D 7 ;26,&' <32D:'H<32;493<=';24';C @8'M## ;23=,' :3'
8< ='92'-@85;24'?3<3'79G34'@ '?98:';'C<9H;43' &' @8D:'59H:8

' 2&;28<6'<3H97328=' &'%@;4;5;X;<;';24' =8@<9;='&'8:<33'C;88;59 2='3;D:,
* 2&;28<6'<3H97328' &' <92D3=;'08:<33'C;88;59 2=P'59H:8'C;88;59 2' &' ;<D3V
5 2;';24'D;B;5<6'<3H97328=' &' 57;2R:';24'/955;B9D9 =;,'
* 9H:8'C;88;59 2' &'W' / 5@2833<=' &' ;8;5 29;,A
1' 2&;28<6'<3H97328' &'Q;7 <;'D;B;5<6'<3H97328=' 35' 36' 5H;<B3' 2&;283,

D;B;596 ;24 = 73 ;29=:92&;28<6, ; 53 2A= ?2 < B94328 363):;4 C332 < B92H < @24 327 ;<> ;24 :3 :;4 :97 =35& H9B32 8:3 <43<= & <8:3 49=5 D;89 2 &8:3 ;29=:D < =92 8:3 &;=:9 2 8:;8 =33734 C3=8D;5D94;834 8 7 ;>3 ;26 D 7 7 2 ;D89 2 97 ==9C53, >33 8:37 92 H 4 8337 3< :3 :;4 <3D32856 <;9=34 8:3 ;6 &8:3 &&9D3<= ;24 ;22 @2D34 :9= 92832892 &43D <;892H ;7 2;? 98:8:3 %<;24 < == &8:3 3H9 2 & 2 @<, 37;4 883 C6 :9= 43=9<3 49= 5;634 8:3 H<3;83=8 D 2&9432D3 92 :9= ;@G959;<93= ;24 8 > ;8< &8:3 D;B;5<6 <3H97328 35 36 ;= :9= 3<= 2;53=D <8 ?:953 7 B92H ;C @8 92 327 ;<>

2 = 983 &;55 8:9=8:3 ;<J@9= ;24 :9= &&9D3<= C3H;2 8 H< ? @23;=6 92 <95 M#M &<8:3 =8<3;7 &49= ;8D:3= ;24 53883<= &< 7 ;92 ? :9D: :;4 C332 <3;D:92H 8:37 B3<6 <3H@5;<56 4@<92H 8:3 ?9283<C3H;2 8 4<6@ 92 8:3 = <92H, :32 8:3 &9<=8 D 7 7 @29D;V 89 2 &< 7 8:3 23? 7929=8<6 &< 3<492;24 / <3;D:34 ; 7;2; :3 & @24 8:;8 98 D 28;9234 ; D 7 5;928 8:;8 8:3 : 73 H B3<2 7328 :;4 <3D39B34 2 <3 <8= &< 7 8:3 3G 34989 2;<6 & <D3 =92D3 -;2@;<6 ;24 8:;8 &&8332 =3 ;<;83 49= ;8D:3= =328 8 :97 &< 7 ;4<94 :;4 &;9534 8 H38 ;26 ;2=?3<, :3 &;D8 ?;= 8:;8 ; 53 2 :;4 C332 =6=837;89D;556 9283<D3 892H 3B3<6 4 D@7328 ?:9D:8:3 ?;< 7929=83< ;8 23 324 &8:3 5923 ;24 8:3 ;<J@9= ;8 8:3 8:3<:;4 C332 D 7 7 98892H 8 8:3 <32D: =8 0 :3 5;=8 49= ;8D: :;4 256 D 73 8 :;24 C3D;@=3 =@D: ;2 97 <8;28 ;22 @2D37328 ;= 8:;8 &8:3 ;DD3==9 2 &0 92H 3<492;24 :;4 C332 =328 C6 8:3 :;24= & ; ;29=: &&9D3<? :7 2 ;<83 < @D: :;4 2 8 8: @H:8 < 3<8 ;<<3=8 8: @H:8:36 :;4 9283<D3 834 = 7 @D: &&9D9;5 D <V <3= 2432D3, :3 7 3< <:97 =35& :;4 =328 <43<= 8 37;4 883 8:;8 8:3 23?= &8:3 <3B 5@89 2 ;8 <;2X@3R =: @54 C3 >3 8 ;= 5 2H ;= ==9C53 &< 7 8:3 ;<J@9= ;24 :9= 8< = `K ;24 = 98 D;73 8 ;== 8:;8 256 ;B3<6 &3?4;6= ;&83<8:3 3B328= & ;<D: "C3D;73 >2 ?2 92 327 ;<> 8:3<3 & 55 ?34 8:3 43 5 <;C53 9283559H32D3 & 8:3 8<3;D:3<6 & ;6 223 ;24 &8:3 ;4<94 92=7<3D89 2 & ;6 $, :3=3 89492H= < 4@D34 8:3 =;73 &33592H= 92 6C <H ;24 <343<9D9; 8:;8 8:36 :;4 D;@=34 ;8 3B9553 < <@22;, @8 2 8:3 =: <3= & 8:3 ;589D &@<8:3< 2 <8: 8:;2 ;26 ;29=: 8< = :;4 3B3< C332 C3& <3 8:3 3G 34989 2;<6 D < = &358 98=35& :35 53== ;24 =@<< @2434 C6 3237 93=, 38 ;= - =3 : A 22355 8:32 23 & ; <;;2;A=

<83D:3 999, ; B999, $#,
* ; 53 2 8 3<8:93< ;<D: $" M#M 3, & * & $ IN""P,
; C

=8;&&' C=3<B34K' T :3' 7 <3' 8:36' 8<934' 8 ' 3<=@;43' @=' 8:;8' ;92' ?;=' -K<;2J@95' ;24' :;4' =388534' 4 ?2' 8 ' 32X 6' ;2' ;H3' &'&359D986' @243<' ; 53 2'8:3.7 <3'D53;<56'494'?3'& <3=33'8:3'=D323=' &'C5 4'=8<9&3' J ;24,49=;=83<' ?:9D:' ?3<3'8 ' & 55 ?' 8:3=3'92D<349C53' 3B328=

2' -@23' $L' 8:3<3'<3;D:34' 6C <H'8:3'9283559H32D3' ?:9D:' =: ?34' 8:3' ?: 53' &' ; 53 2A=' =D:373=' D 7 53834K' 98' ?;=' ;22 @2D34' 8 ' ;' J7;2;' 8:;8' - =3 :' 2; ;<83' :;4' C332' < D5;97 34' 0 92H' &' ;92' ';24' :3' ?;=' <43<34' 8 ' 8<;2=7 98' 8:3' 23?=' 8 ' :9=' 8< =' ;24' 8 ' 92& <7' 8:37' 92' %323<;5' <43<=' 8:;8' 8:36' ?3<3' 2 '=3<B92H' ;' 23?' 7;=83<,' :3' 256' D 7 7 328;96' 2' 8:9=' ;=8 29=:92H' 92& <7;89 2' ?:9D:' 8:3' ;29=:' &&9D3<=' D @54' < D@<3' D 2=9=834' &' 8:3' 2;@=3 @=' C;2;59893=' &' 8:3' 'D 2D3<292H' 8:3' T<3H323<;89 2' &' ;92,A

' B3<6' &3?' 4;6=' 5;83<' 8:3' &9<=8' <;6' &' : 3' =: 23' @ 2' 8:3' :@7 C534' ;24' 49=593;<83234' H323<;5,' 23' &' 8:3' 3;<593=8' 943;=' &' 8:3' <989=:' % B3<2 7 328' 2' :3;<92H' &' 8:3' ;29=:' 92=@<<3D89 2' :;4' C332' 8 ' 32' D 7 7@29D;89 2=' ?98:' 8:3' 8< =' 92' 32 7;<>,' ;=8;2 ='92' :9=' &9<=8' 9283<B93?' ?98:' 8:3' % B3<2 <' &' %9C<;58;<' :;4' 3G <3==34' :9=' 929 2' 8:;8' 8:36' ? @54' =8<9>3' ;' C5 ?' & <' 59C3<86' 9&' 256' 8:36' ?3<3' H9B32' 8:3' D:;2D3,' :3' &5338' &' 9<,' 9D:;<4' 03;83=' =' D 7 538356' D 7 7;2434' 8:3' ;589D' 8:;8' 98' ? @54' C3' ==9C53' 8 ' <3=D@3' 8:3' ;29=:' 3G 34989 2;<6' & <D3' 9&' 256' 98' ?3<3' ?95592H' ;24' ;C53' 8 ' D@8' 98=' ?;6' 8 ' 8:3' D ;=8,' @8' 98' ?;=' 23D3==;<6' 8 ' &924' @8' ?:38:3<' 8:3' ;<J@9=' ?;=' <3;46' 8 ' <9=>' :9=' 23D>' 92' =@D:' ;2' 3283< <9=3' ;24' ?:38:3<' :3' D @54' 43 324' 2' 8:3' 5 6;586' &' :9=' 8< =,

' =38853' 8:9=' ;55.97 <8;28' J@3=89 2' = 73' ;H328' 7@=8' C3' & @24' ?:' ? @54' @24398 >3' 8 ' 3238<;83' 8 ' ;' 7;2;A=' :3;4' J@;<83<=' ;' 8;=>' &' 8:3' 7 =8' @292B9892H' >924' & <' 98' ?;=' J@983' @2D3<8;92' ?:38:3<' 8:3' ;29;<4' ? @54' 3;H3<56' X 92' 92' 8:3' 5;2' <' ?:38:3<' :3' ? @54' 7;>3' @ ' :9=' 7924' 8 ' 3= @=3' 8:3' D;@=3' &' ; 53 2' ;24' :;24' B3<' :9=' B9=98 <' 8 ' 8:3' <32D:' 59D3,' ' &924' ;' 7;2' ?:' >23?' 8:3' 2892328' ?355' 32 @H:' 8 ' 7 B3' ;C @8' ?98:' @8' 4383D89 2' ;24' ?:' ? @54' 8;>3' 8:3' <9=>' &' 5;D92H' :97=35&;8' ;' 7;2;A=' 73<D6' 92' D;=3' :9=' &&3<=' ?3<3' <3&@=34' 494' 2 8'1) 337' 3;=6,' @8' 8:3' <9H:8' 3<= 2' ?;=' 98D:34' @ 2' C6' 9<' <8:@<' 3553=536'X@=8' C3& <3' :3' =;9534' & <' <8@H;5,' 3' <3DJ7 7 32434' 8 ' ;2292H' ;' 7;2' ;8: 59D' <93=8' &' 8:3' 2;2X3' &' -;73=' C3<8= 2,' :9=' 3283< <9=92H' 3DD53=9;=89D' ?;=' ;' D 8' ?: ' :;4' = 328' 7 =8' &' :9=' 59&3' 92' ;' 7 2;=83<6' ;8' ;89=C 2' C@8' :;4' 5;8356' D 7 3' 8 ' 2H5;24' ;24' ?;=' ;D892H' ;=' * 33' :9=' ? <4=' J@ 834' 92' <83D:3' 999,' NL,

8@8 <' 92' 8 : 3' 59 @=3' &' ; 2' 2H59= : ' ; 8 : 59D' 33<,' 3' : ; 4' = 7 3' 89 7 3' C3& <3' &&3<34' : 9 7 =35&' 8 ' 3553=536' ;=' ;' 7 ; 2' ? : .' >23?' %3< 7 ; 26' ? 355' ; 24' ? ;=' <3 ; <34' 8 ' <@2' <9=>=' 92' 7 ; >92H' : 9 7 =35&' @=3&@5 8 ' 8 : 3' % B3<2 7 328

243<' 8 : 3' C3593&' 8 : ; 8' 8 : 3' ; 29 ; <4=' ? 3<3' =8955' J@ ; <83<34' 92' 8 : 3' ; 2=3' 8 ? 2=' ; 24' 5=8392 ' ; 2292H' =3 8' & <' C3<8= 2' ; 24' ; =>34' : 9 7' ? : 38 : 3<' : 3' ? @54' @243<8 ; >3' 8 : 9=' 4 ; 2H3< @=' 7 9==9 2' 8 ' <8 : 3<2' %3< 7 ; 26,' : 3' <93=8' ; DD3 834' 8 : 3' &&3<' ; 24' ? ;=' 49= ; 8D : 34' 8 ' 359H 5 ; 24 ' ? : 3<3' <,' ; D>32R93 ' 8 : 3' <989= : ' ; H328' 92' 8 : 9=' 5 ; 8356' =39R34' 9=5 ; 24 ' & @24',' : 9 7' ;' 5 ; D3' 2' C ; <4' ;' = 7 @HH592H' B3==35' C @24' & <' 8 : 3' 7 @8 : ' &' 8 : 3' 3=3<,' 3' ? ;=' = ; &356' 5 ; 2434' 23 ; <' <3 7 39<.' : ; &32' ; 24' 7 ; 43' : 9=' ? ; 6' 8 ' ; 7 C@<H ' 256' 8 ' &924' 8 : ; 8' 8 : 3' ; 29 ; <4=' : ; 4' C332' 7 B34' 2 <8 : ? ; <4' 928 ' 8 : 3' ; 29=' : ' 9=53=,' : 9=' 7 ; 43' 8 : 3' 7 9==9 2' 7 <3' 4 ; 2H3< @=' ;=' C3<8= 2' >23?' 2398 : 3<' 8 : 3' D @28<6' 2 <' 8 : 3' 5 ; 2H@ ; H3,' @8' : 3' 49=H@9=34' : 9 7 =35&' ;=' ;' %3< 7 ; 2' D 7 .*' 7 3<D9 ; 5' 8< ; B3553<' ; 24' 5 ; 94' 92' ;' =8 D>' &' D : D 5 ; 83' ; 24' D9H ; <= 8 : 92H=' ? : 9D : ' ? 3<3' B3<6' <; <3' 92' 8 : 3' <8 : ' ;=' ; 5 2H' ? 98 : ' 8 : 3<' D 5 29 ; 5' < 4@D3' 8 : 36' ? 3<3' < =D<9C34' C6' 8 : 3' 2892328 ; 5' 6=83 7 ' ; 24' D @54' 256' C3' H 8' &< 7 ' = 7 @HH53<=,' 8' ? ;=' >2 ? 2' 8 : ; 8' 8 : 3' ; 29=' : ' &&9D3<=' &358' 433 56' 8 : 39<' <9B ; 89 2' &' 8 : 3' 8 ? ' 5@G@<93=' 7 =8' 43 ; <' 8 ' 8 : 39<' &<@H ; 5' < ; D3 ' = ' 8 : ; 8' 98' =33 7 34' B3<6' 2 ; 8@<; 5' 8 : ; 8' ;' 43 ; 53<' 92' =@D : ' H 4=' = : @54' ; 883 7 8' 8 ' &924' ;' 7 ; <>38' ; 7 2H' 8 : 3 7 ,

%38892H' 8 ' 6C <H' ? 98 : @8' 7 @D : ' 49&&9D@586 ' 8 : 3' <93=8' 8 >' : 9=' &; 83' 92' : 9=' : ; 24=' ; 24' 928< 4@D34' : 9 7 =35&' 8 ' ;' 7 ; 2 ; ' ? 98 : ' ;' C G' &' D9H ; <=' @243<' 23' ; <7' ; 24' ;' 4 R32' =9D>38=' &' D : D 5 ; 83' @243<' 8 : 3' 8 : 3<,' : 32' 8 : 36' ? 3<3' ; 5 23' : 3' 8 : <3 ? ' : 9 7 =35&' 2' 8 : 3' ; <J@9=' D 2&9432D3 ' ? 292H' 8 : ; 8' : 3' ? ;=' ;' <93=8' ; 24' ;' <989= : ' =@CX3D8 ' 2 8' ;' %3< 7 ; 2' <' ;' D 7 7 3<D9 ; 5' 8< ; B3553<,' 593' ; 29 ; <4' ? ;=' ; 8' &9<=8' =@= 9D9 @=' ; 24' =9532 8 ' 8 : 92>92H' 8 : ; 8' : 3' : ; 4' 8 ' 43 ; 5' ? 98 : ' ; 2' * ' ! ' &' 8 : 3' <32D : ' % B3<2 7 328 ' ? : ' ? ;=' 8<692H' 8 ' 7 ; >3' : 9 7 ' = : ?' : 9=' : ; 24,' C3<8= 2' : ; 4' 2 ' ? <98832' B @D : 3<=' & <' : 9=' 7 9==9 2 8 : 36' ? @54' : ; B3' C332' 8 ' 4 ; 2H3< @= C@8' : ; 4' C332' H9B32' = 7 3' B3<C ; 5' D<343289 ; 5=' C6' ; 2292H ' ? : 9D : ' = 2' D 2B92D34' ;' 7 ; 2 ; ' &' : 9=' H 4&5' &; 98 : ,' : 3' ; <J@9=' 8 : 32' ? 234' *8 : ; 8' : 3' ? ;=' 49=H@=834' ? 98 : ' : 9=' =989 2 ' ; 24' &358' =@<3' 8 : ; 8' ; 53 2' : ; 4' 5 8834' 8 : 3' <@92' &' ; 92 ' 8 : @H : ' ? : ; 8' 3G ; D856' : ; 4' : ; 3234' ; 8' ; 6 223' : 3' : ; 4' 2 8' 638' C332' ; C53 8 ' ; =D3<8 ; 92,' C3<8= 2' 23G8' 5 ; 94' C3& <3' : 9 7 ' ; 2292H=' &&3< 8 : ; &' 9&' 8 : 3' 3G 34989 2 ; <6

)' 33' : 9=' 9283<3=892H' 598853' C > ' / ' 1 ' ' ' ' ' ' ' JOAO$' @C59= : 34' ; 8' 492C@<H : ' 92' MMI' C6' : 9=' <35 ; 89B3' 53G ; 243<' <; =3<,'

' C' $

R s s s [M s

9H2 <;2D3s &s8:3s 5;2s& <s3B;=9 2,s ;s 7;2;s;24s:9=s D @2D955 <=s :354s :;8s 8:3s D3<37 26s :;4s C3883<s C3s H 23s 8:< @H: 8s =?3;<s @243<s D 7 @5=9 2s?;=s2 8s 3<X@<6s;24s8s<3&@=3s? @54s49);?s4 ?2s 2s8:3s ;29=:s D < =s B3<?:3579 2Hs2@7C3<=s &s ;23=s;24s <32D:s =s8:;8s,8:3s?: 53s=D:373s& <s3=D; 3s? @54s79=D;<<6,s DD <492H56s 8:3s8< =s92s -@85;24s;24s 99232s?328s8:< @H:s8:3s D3<37 26s92s ;s7 <3s <s53==s&;<D9D;5s?;6 92s= 73s D;=3=s8:3s732s;<3s=;94s8s:;B3s =@C=898@834s8:3s2;73s 3<492;24s& <s8:3s2;73s - =3 :s92s8:39<s ;8:s?:953s8:3s &&9D3<=s8 >s2s2 89D3s &s8:9=9s<;8:3<s=8;<8592Hs B;<9;89 2,

@8s92sQ3;5;24s8:92H=s?328s 8:3<?9=3Ks8:3s8? s92&;28<6s<3H97328=s &s%@;4;5;X;<;s:24s =8@<9;=s?:32s ;<;434s;24s8 54s8s8;>3s8:3s ;8:sC@<=8s @8s928s7@8926s4< B3s &&s8: =3s &s8:39<s ?2s &&9D3<=s ;?:s8<934s8s<3=8<;92s8:37s>95534s8:3s;943.43.D;7s &s8:3s <32D:s %323<;5s <9<9 2s?:s?;=s <3=9492Hs;8s8:3sD3<37 26s;24s8:<3;83234s 8s7;<D:s 2s 32:;H32,s 3G8s4;6s8:36s?3<3s=@<< @2434s C6s 7;==3=s &s ;29=:s8< =s&<D34s8s=@<<3243<s49=;<734s;24s @8s 92sD 2&9237328s92s=7;55s C493=s;8sB;<9 @=s 928=s92s8:3s9=5;24s W @H@=8s],

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2s @H@=8sMs8:3s8< =s92s-@85;24s=89.@D>s8:39<sC5 ?Ss8:3s 92&;2896s<3H97328s &sQ;7 <;s;8s <343<9D9;s=39R34s;s2@7C3<s &

&9=:92H.B3==35=' ;24'&3<<934'98=35&' B3<'928 ' 99232' ?98:' 2 ' 49&&9D@586,' %323<;5 092435;2 ' 8:3' 256' 8<;98 <' 92' 8:3' D;7 ' :;4' C332' >3 8' &< 7 ' ;55' >2 ?534H3' &' ?::;8' ?;=' 8 ' :; 32K' ?:32' :3' =;?' :9=' 8< =' 2' 8:3' 7 B3' ;24' <3D39B34' ;2' 3G 5;2;8 <6' 2 83' X&< 7' ;' 7;2;' @8892H' :97' 92' ==3==9 2' &' 8:3' =8;83' &' ;&&;9<=' :3' &39H234' D 7 59;2D3' 92' 8:3' 5;2' :@8' 49=H@9=34' :97=35&' ;24' &534' 8' 8:3' 23;<3=8' <32D:' D;28 27328' ?:3<3' :3' H;B3' 32376' ;' &@55' ;DD @2&' &' 8:3' =8;<8592H' 23?=,' :3' D;B;5<6' <3H97328=' 2&;283' ;24' 35' 36' :;4' 8:3' =;73' 5@D>' ;=' 8:39<' D 7<;43=' &' Q;7 <;K 8:36' =39R34' C ;8=' ;8' ;<:@@=' ;24' ;C;24 292H' 8:39<&:' <=3=' H 8' ;D< ==' @2 =34' 8 ' 99232,' :39<' D 7<;43=' &' 8:3' <3H97328' &' 5H;<B3' ?3<3' 53==' 5@D>6K' 8:36' ?3<3' 435;634' &' <'= 73' 8973' :6' 8:3' 9243D9=9 2' &' 8:39<' ;H34' ;24' 97 C3D953' D 5 235K' ?:32' =8;' 8:39<' =329 <' D; 8;92' 8 >' D 7 7;24' ;24' 7;<D:34' 8:37' &9K 7' 9#=32=' 8 ?;<4=' 8:3' <8' &' <343<9D9;' 98' ?;=' 2 ?' 8 ' 5;83,' ' C<9H;43' &' @8D:' @==;<=' ?;<234' C6' 92435;2' C3=38' 8:37' 2' 8:3' ?;6' ;24' 8 >' 8:37' ;55' <9= 238=,' =8;' =3392H' 8:;8' 8:3' <3= 2=9C95986' ? @54' &;55' 2' :9=' :3 ' C53?' @8' :9=' C<;92=' ;8' 8:3' 7 7328' &' =@<<3243<,

7;2;' :;4' D 2D328<;834' 92' 99232' 23;<56' M ###' 732' ;24' ?;=' =' =8< 2H' 8:;8' 8:3' ;29=:' H323<;5' ;8' 432=3' 92' 8:3' D328<3' &' 8:3' 9=5;24' 4;<34' 2 8' 7349&53' ?98:' :97,' 2' @H@=8' "' #';24' ' :3' ;==34' :9=' 8< =' B3<' 8 ' 8:3' =7;553<' 9=5;24' &' H35;24' ?:3<3' 8:3' <3H97328' &' ;8;5 29;' :;4' ;5<3;46' 49=;<734' 8:3' ;29=:' H;<V <9= 2' ;24' =39R34' 8:3' C;883<93=,' 3<3' :3' ?;=';&3' &' <' ;2H35;24' ' &;<' @8' 8 ' =3;' ;24' :3' ?;=' 2 ?' < 83D834' &< 7' 8:3' ;23=' C6' 8:3' 2H59=:' ?;<=:9 =' ?:9D:' ?3<3' C3H922 92H' 8 ' H;8:3<' 2' 8:3' = 8,' ' &3?' 9= 5;834' 732' &< 7' Q3;5;24' ;C @8' #' 92' ;55' =@DD33434' 92' X 9292H' 8:3' 7;92' C 46' :;B92H' 3=D; 34' &< 7' 8:39<' H@;<4=' ;24' =39R34' &9=:92H.C ;8=K' C@8' 8:3=3' ?3<3' ;55' 8:;8' H 8' ;?;6' &< 7' 8:3' <3H97328=' &' =8@<9;=' ;24' %@;4;5;X;<;' 8:3' 7@89233<=' &' -@56' I ,

<'832' 4;6=' ;2H35;24' ?;=' D<;7 734' ?98:' " ###' ;29=:' 8< =' ?;9892H' ;2G9 @=56' & <' 8:3' 3G 3D834' <989=:' =J@;4< 2,' 2' 8:3' 8?3286.&9<=8' : ?3B3<,' 4 79<;5' 03;83=' ; 3;<34' ?98:' 8:<33' =;95' &' 8:3' 5923' ;24' =3B3<;5' =7;553<' D<;&8,' 2' 8:3=3' ;24' 2' =7455' ;29' B3==35=' 8:3' ?: 53' ;<76' ?;=' :;=8956' 37C;<>34K' 8:36' <3;D:34' % 8:32C@<H' 92' ?3432' 2' @H@=8' $ ';24' & @24' 8:3<3' 8:9<86.=3B32' 5;<H3' 8<;2= <8=' =328' &< 7' 2H5;24' & <' 8:39<' ;DD 7 7 4;89 2,' &83<' ;'5 2H' B 6;H3' 8:36' <3;D:34' 8:3' ;29=:' D ;=8' 92' =;&386' ;24' 8:3' ?: 53' 3G 34989 2;<6' D < =' &' 8:3' <8:' 2 ?' " ###' =8< 2H' ?;=' D 2D328<;834' ;8' ;28;243<' C6' D8 C3<' ,' :3' 92&; 2896' ?;=

=328 8 8;>3 ;<8 92 8:3 =3D 24 D;7 ;9H2 &%323<;5 5;>3, :3 49=7 @2834 D;B;596 ?3<3 <43K34 8 7 B3 8 =8<37;4@<; ;24 8:3<3 8 < B943 8:37=35B3= ?8: : <=3=, ; 7;2; :97=35& ?;= ,D;5534 8 ;4<94 8 9283<B93?8:3 -@28; = 8:;8 :9= 89A = ?328 8 8:3&< 28 @243< 8:3D:;<H3 &:9= =3D 24 92 D 7 7;24 8:3 @28 & ;2 7;2 8 8;>3 ;<8 92 8:3 C5 46 &9H:8 & = 92 =;,

3B;=9B3' ;2=?3<=' ;24' 2 ' 97 7 349;83' =9H2=' &' ;' <@ 8@<3' D @54' C3' 49=D3<234,' @8' 8 ' 7 ;>3' 7 ;883<=' =@<3 ' 8:3' 7 3< <' :;=83234' 8 ' 92B983' :9=' ;556' 8:3' 7 3< <' 53G;243<' &' @==9;' 8 ' 7 338' :97 ' ;8' <&@<8,' :3' =832=9C53' CX3D8' &' 8:3' D 2&3<32D3' ?39=' 8 ' 7 ;>3' ;' &92;5 3&& <8' 8 ' 924@D3' 8:3' <989=:' % B3<2 7 328' 8 ' ;DD3 8' 83<7=' &' 3;D3,' 8=' <3;5 7 3;292H' ?;=' 8:;8' 2; ;<83' ?9=:34' 8 ' <3;==@<3' :97 =35&' D 2D3<292H' 8:3' R;<=' 92832 89 2=' ;24' 8 ' =33' ?:38:3<' :3' D @54' <356' @ 2' 8:3' =@ <8' &' @==9;' 92' 8:3' 3B328' &' ;' 23?' @=8<9;2' ?;<,' :3<3' 9=' 2 ' 2334' 8 ' H ' 928 ' 8:3' 438;95=' &' 8:3' 7 33892H' 0 3 837 C3<' $ ' 8 ' D8 C3<' LP' &' 8593' H;8:3<92H' &' & @<' B;==;5 >92H=' ;24' ;' =D <3' &' 792 <' <92D3=' &' 8:3' 2&343<;89 2' &' 8:3' :923' 8 ' 4 ' : 7 ;H3' 8 ' 8:39<' 7 ;=83<' &' 8:3' &3;=8=' ;24' 5;6=' ;24' <3B93?=,' @&&9D3' 98' 8 ' =;6' 8:;8' ; 53 2' H 8' ?:;8':3' ? f 2834' ;' 43&92983' < 79=3' &< 7' 8:3' R;<' &' ;2' &&32=9B3' ;24' 43&32=9B3' ;559;2D3' ;H;92=8' ;55' 3237 93=' ?:;8= 3B3<K' ;' = 3D9;5' 7 3289 2' &' @=8<9;' ?;=' 7 ;43' 92' 8:3' 8328:' D5;@=3' &' 8:3' 23?' 8<3;86':' 2' <38@<2' 53G;243<' C8;9234' 53;B3' 8 ' D;<<6' @8' :9=' 43=9H2=' ;H;92=8' 925;24' ;24' 8:3' ;2@C9;2' <92D9 ;59893=K' :9=' ;556' ?;=' 256' 8 ' H5;4' 8 ' =33' :97 ' 92B 5B34' 92' ;26' 3283< <9=3' 8:;8' ?7@54' 49=8<;D8' :9=' ;883289 2' &< 7 ' 328<;5' @< 3,' :3' 7 3< <' <;2D9=' ' :;=83234' 8 ' 49=V ;<7' 8:3' =@= 9D9 2=' &' ; 53 2' C6' =32492H' 8 ' <&@<8' ;2' 32B 6' ' D:;<H34' ?98:' ;55' 7 ;223<' &' ;D9&9D' 43D5;<;89 2=K 8:36' B3<3;DD3 834' C@8' 8:3' ;DD3 8;2D3' ?;=' ;DD 7 ;2934' C6' ;' 7 3==;H3' &' =D;<D356' D 2V D3;534' 8:<3;8=' ?:9D:' 7 @=8' :;B3' 8 @D:34' 8:3' D @<8' &' /9322;' 8 ' 8:3' J@9D>,' 8< 2H' 92' :9=' @==9;2' ;559;2D3' 2; ;<83' D: =3' <;8:3<' 8 ' C@556' 8:;2' 8 ' D;X 53' 8:3' <92D3' ?: ' C6' 8:3' =8<;2H3=8' &' D:;2D3=' ?;=' 43=89234' ?98:92' 39H:8332' 7 28:=' 8 ' C3D 7 3' :9=' &;8:3<.92.5;?,' 1 :3' J@938' <3D3 89 2' H9B32' 8 ' :9=' :3D8 <92H' 49= ;8D:3=' =: ?34' 8:;8' & <' 8:3' <3=328' ;8' 53;=8' 2 8:92H' 2334' C3' &3;<34' &< 7' 8:3' =943' &' @=8<9;,' :3' 7 3< <A=' B:53;883289 2' D @54' C3' 8@<234' 8 ?;<4=' ;92,' &83<' 835592H' &&' ;' &3 /' 7 <3' <3H9 7 328=' & <' =3<B9D3' C36 24

$### ###,' ;' 2&343<;89 2' 4@' :92' J@9' ;);98' <32B 63' =3=' 8< @ 3=' B;' 53=' <3@29<' 38' &;9<3' 43=' 53B33=,' -3' <38;C59<;9' 53=' 5;D3=' 43' 953=93' ;@' 593@' 4A3B;D@3<' D3883' < B92D3' 38' 53=' 38;8=' <@==932=' D 7 73' X3' 73' 53' < =;5=,' A @< 3' =3<;' =@<' 934' 38' 53' 5@=' 53H3<' 92D94328' ;7323<;' 53' D 7 732D3 7328' 43=' : =.' 895983)=K fD,

' T' ;2=' 53' D;=' @' @8<9D:3' =3' 7388<;98' 32' H@3<<3' D328<3' 5;' <;2D3' A 7 3<3@<' 43' @==93' =A32H;H3' ;' =3' 43D5;<3<' D328<3' A @8<9DC3' 38' ;' &;9<3' D;@=3' D 9&8 7@23' ;B3D' 5;' <;2D3' K 0 <89D53' ! ' D5;@=3' $' &' 8:3' 3D<38' <3;86P,

* ;< 2' /92D328,

' 33' 8:3' 49= ;8D:' 3, &' * & $' L IM##P,

0 9 2 H A 9 8 = ; 9 4 T ? ; = 4 3 = 9 < @ = & < 3 ; D 3 2 : 2 @ < ; C 5 3 8 3 < 7 = , : 3 7 9 = 3 < ; C 5 3 D 2 4 9 8 9 2 & 8 : 3 2 8 9 2 3 2 8 8 ? : 9 D : ; 5 5 @ = 9 2 : ; 4 C 3 3 2 7 ; 4 3 ? ; = 2 8 4 @ 3 8 : 9 = 5 9 D 6 K ; = 6 = 8 3 7 4 3 B 9 = 3 4 & < 8 : 3 4 3 = 8 2 9 D . 8 9 2 & < 9 8 9 = : D 7 7 3 < D 3 ; 4 < 3 D 9 5 3 4 2 9 8 = ; @ 8 : < = ; 2 4 8 : 3 9 < 9 2 = 8 < @ 7 3 2 8 = , @ 8 8 : 3 4 9 = 8 < 3 = = 3 B 3 2 & : 9 = 3 2 3 7 9 3 = ? ; = 2 = @ < D 3 & 5 3 ; = @ < 3 8 : 3 0 9 2 H ; 2 4 : 3 ? @ 5 4 8 < 3 ; 8 ; 8 2 D 3 9 & 8 : 3 < 3 < 3 V = 3 2 8 ; 8 9 B 3 = & ? 3 4 3 2 < 8 @ H ; 5 9 D 9 5 6 ; 2 4 ; 9 2 ? 3 < 3 ; 4 7 9 8 8 3 4 8 8 ; > 3 ; < 8 9 2 8 : 3 2 3 H 8 9 ; 8 9 2 = , 8 ? ; = 8 C 3 = 3 D 9 ; 5 5 6 = 8 9 @ 5 ; 8 3 4 8 : ; 8 8 : 3 T 3 2 8 < ; 5 - @ 2 8 ; & % B 3 < 2 7 3 2 8 A ; 8 ; 4 < 9 4 ? = 9 = 8 C 3 ; ; < 8 6 8 ; 2 6 8 < 3 ; 8 6 & 3 ; D 3 ,

: 3 8 ? < 9 8 9 = : 2 8 3 = C < @ H : 8 8 : 3 < 3 5 9 3 = & < 7 8 , 3 8 3 < = C @ < H ; 2 4 ; < 9 = 8 : ; 8 ; 2 2 9 2 H 3 G 3 D 8 3 4 , @ 2 8 7 ; 2 R & ? 9 8 9 2 H & < 8 : 3 R ; < D @ 5 4 2 5 6 = 8 ; 8 3 8 : ; 8 : 9 = 7 ; = 8 3 < : ; 4 ; D > 2 ? 5 3 4 H 3 4 - = 3 : 2 ; < 8 3 ; = 0 9 2 H & ; 9 2 ; 2 4 D @ 5 4 2 8 < 3 D H 2 9 R 3 8 : 3 3 G 9 = 8 3 2 D 3 & ; 2 6 8 : 3 < 5 3 H ; 5 ; @ 8 : < 9 8 6 9 2 8 : ; 8 > 9 2 H 4 7 , @ 8 9 & 8 : 9 = 9 2 8 0 8 : 3 2 5 6 < 3 ; 5 5 6 9 7 9) 8 ; 2 8 2 3 P D @ 5 4 C 3 H 8 B 3 < 8 : 3 @ = = 9 ; 2 % B 3 < 2 7 3 2 8 ? ; = < 3 ; 4 6 8 8 < 3 ; 8 2 ; C ; = 9 = & 5 # < ; 2 6 8 : 3 < X @ = 8 ; 2 4 : 2 @ < ; C 5 3 8 3 < 7 = , : 3 < 3 2 D : < 3 5 6 ? ; = ; = ? ; = 2 ; 8 @ < ; 5 D @ D : 3 4 9 2 B 3 < 6 4 9 & & 3 < 3 2 8 5 ; 2 H @ ; H 3 , ; 5 3 2 : ; 4 C 3 3 2 9 < < 9 8 ; 8 3 4 C 6 ; 2 2 9 2 H A = = ; < D ; = 8 9 D ; 5 5 @ = 9 2 = 8 8 : 3 & ; 9 5 @ < 3 & 8 : 3 2 8 9 2 3 2 8 ; 5 6 = 8 3 7 K : 3 8 : @ H : 8 8 : 3 8 2 3 & 8 : 3 < 9 8 9 = : 2 8 3 7 = 8 ' 9 7 < 3 < ; 2 4 9 2 = @ 5 8 9 2 H T 9 8 D 7 3 = & < 7 8 : 3 = ; 7 3 3 2 ? : 9 D : 8 : 3 2 H 5 9 = : 7 9 2 9 = 8 < 6 3 7 5 6 = 8 & ; C < 9 D ; 8 3 8 : 3 = ? ; < 7 N & 5 9 C 3 5 = ? 9 8 : ? : 9 D : 9 8 9 2 @ 2 4 ; 8 3 = 8 : 3 2 8 9 2 3 2 8 , @ D : 5 ; 2 H @ ; H 3 9 = 4 3 = 9 D ; C 5 3 ; 2 4 @ 2 ? < 8 : 6 & 8 : 3 9 7 3 < 9 ; 5 ; 8 8 3 2 8 9 2

2 = 9 4 3 < 9 2 H 8 : 3 & & 3 2 = 9 B 3 ; 2 4 C @ 5 5 6 9 2 H 8 2 3 ? : 9 D : 2 ; ; < 8 3 ? ; = ? 2 8 8 @ = 3 8 8 : 3 < ? 3 < = : 9 = 2 8 3 ? < 9 8 8 3 2 8 @ = 8 < 9 ; ; & 3 ? 4 ; 6 = C 3 & < 3 ? ; = ; & ; 9 < 3 G ; 7 5 3 & 9 8 : 3 : ; 4 5 9 8 8 5 3 < 3 ; = 2 8 C 3 9 2 4 9 H 2 ; 2 8 ; 8 : 3 3 9 H < ; 7 = & 8 : 3 2 H 5 9 = : 7 9 2 9 = 8 3 < , 3 8 8 : 3 5 ; 8 8 3 < 7 9 H : 8 3 < : ; = : ; B 3 4 2 3 ? 3 5 5 8 > 3 3 : 9 = 3 2 @ 2 4 3 < D 2 8 < 5 ; 2 4 8 8 & < H 3 8 8 : ; 8 : 3 ? ; = 2 8 ? < 9 8 9 2 H & < 8 : 3 < 8 C @ 8 D 7 = 9 2 H ; 2 & & 9 D 9 ; 5 4 D @ 7 3 2 8 , ' B 3 2 8 : @ H : ; 5 3 2 A = & & 3 < ? ; = : 5 5 ? ; 2 4) 9 2 = 9 2 D 3 < 3 9 8 = : @ 5 4 : ; B 3 C 3 3 2 7 3 8 ? 9 8 : 4 < 6 D @ < 8 3 6 < ; 8 : 3 < 8 : ; 2 ? 9 8 : : @ 7 < @ = 9 < 2 6 ,

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;<7 93=' 92' 3 2' ;24' 8:3' 8? ' ;=8953=' ?3<3' D:;2D3=' 8:;8' =337 34' = ')97 < C;C53' 8:;8' O92H' - =3 :' ;24' :9=' ;4B9=3<=' 494' 2 8' 8;>3' 8:37' 928 ' D 2=943<;89 2,' :36' 3G 3D834' 8:;8' 8:3' ;29;<4=' ? @54' 7;==' 8:3' ;<7 93=' &' 24;5@=9;' =8<37;4@<;' ;=8953' ;24' <;H 2' ;24' 3243;B @<' 8 ' 8@<2' 8:39<' 53&8' &5;2>' :' 8:3' =943' &' ;2H@3=;' ;24' ;7 35@2;' <' 8:;8' 08:3' 8:3<' <;89 2;5' D @<=3P' 8:36' ? @54' =324' 8:3' =8@<9;2=' 8:3' 24;5@=9;2=' ;24' 8:3' ;=8959;2=' 8 ' X 92' 5;>3' ;24' 43C @D:' 4 ?2' 8:3' 5923' &' 8:3' 3<' C< ' &< 7' 3 9 =;' 2' 8 ' / 988 <9;' ;24' 9<;24;', 2' 8:3' &9<=8' D;=3' # ### '5;24' 92' 8:3' 5;883<' D;=3' M# ###' 732' ? @54' C3' &5@2H' ;H;92=8' 23' &5;2>' &' 8:3' <32D:' =989 2 ' ;24' 98' ? @54' C3' 23D3==;<6' 8 ' D 2D328<;83' 92' : 8' :;=83' 92' <43<' 8 ' : 54' 8:37' C;D>,' @8 ';=' ;' 7 ;883<' &' &;D8 ' 8:3' ;29=:' & <D3=' 494' 2 8' 3B32' D 73',@ ' 8 ' 8:3' &< 28' & <' 7 ;26' ?33>=' ;24' ?:32' 8:36' 494' ; 3;<' 98' ?;=' ;=' ?3' .:;B3' =332 ' 2 8' 92' 8:3' & <7 ' &' 23' ĥH<3;8' ;<7 6' D 2D328<;834' & <' ;' =8< >3' 2' ;' =92H53' 928 ' C@8' ;=' ;' 2@7 C3<' &' ?3;>' ;24' 9= 5;834' D 5@7 2=' 3;D:' 8:<3;832 92H' ;' 49&&3<328' ;<8' &' 8:3' 5 2H' 5923' 8:;8' 5;6' ;5 2H' 8:3' C< ' &< 7' 9<;24;' 8 ' 95;H< ,' :32' &33C53' 437 2=8<;89 2=' ?3<3' 7 ;43' ;H;92=8' = ' 7 ;26' =3 ;<;83' =3D89 2=' &' :9=' &< 28' - @<4;2' =@ =34' 8:;8' 8:36' ?3<3' =>95&@5' &3928=' 92832434' 8 ' D B3<' = 73' =3<9 @=' ;88;D>' 2' ;' ?3;>' = 8 ' ;24' ;D834' ;DD <492H56' : 5492H' C;D>' 8955' 8:3' 3237 6' =: @54' 43B35 ' :9=' <3;5' 5;2 ' ;24' <3&@=92H' 8 ' D 7 798' :97 =35&' 73;2?:953' 8 ' &&32=9B3' 3<;89 2=' 2' ;' =3<9 @=' =D;53,' 8' 7 @=8' C3' D 2&3==34' 8:;8' 8:3' D:; 89D' ;24' 92D 2=3J@328' 7 B3 7328=' &' 8:3' ;29;<4=' C <3' 8 ' 8:3' 363' &' 8:3' C=3<B3<' &< 7' 8:3' @8=943' = 738:92H' 59>3' 8:3' ; 3;<;2D3' &';' 433 ' 5;2,' 2' @H@=8' $ ' 8:3' 243' 43' 289X ' ?98:' ;' D 5@7 2' &' 8:3' <;H 23=3';<7 6' &358' :9=' ?;6' @ ' 8:3' C< ' ;=' &;<' ;=' 8:3' C<94H3' &' 5&;< ' 23;<56' =983' 8:3' 3G8<3 7 3' 53&8' &5;2>' &' 8:3' <32D:' ;8' 95;H< ,' :32' ;88;D>34' C6' 3&3CB<3. 3=2 @3883=' ;8' 8:3' :3;4' &' ;' &3?' D;B;5<6' ;24' ;' : <=3.C;883<6' 8:3' ;29=:' H323<;5' <3&@=34' 8 ' =8;24 ' ;24' <38<3;834' 2' @435;,' ;<=:;5' 2D36' 8:32' <3==34' :97 ' ?98:' ;2' 92&;28<6' 49B9=9 2 ' C@8' 289X ' ;H;92' H;B3' C;D>,' :3' <32D:' 8: @H:8' 8:;8' 8:9=' 7 B3' 7@=8' C3' ;' 73<3' 49B3<=9 2 ' 92832434' 8 ' ;88<;D8' 8:39<' ;883289 2' 8 ' 8:3' =943' &' <;H 2 ' & <' 289X ' :;4' ;D834' ?98:' =@D:' 3G8<3 7 3' &33C5323==' 8:;8' 98' ?;=' @22;8@<;5' 8 ' =@ =3' 8:;8' :3' ?;=' 7 ;>92H' ;268:92H' C@8' ;' &3928,' :36' ?3<3' J@983' ?< 2H' : ?3B3<K' ;5;& G':;4' 8 54' 8:3' D @28' 8 ' @=:' ;=' &;<' @ ' 8:3' C< ' ;=' :3' D @54' ?98: @8' ;26' 8: @H:8' &' &3B @<92H' 3<;89 2=' C6' 5;>3' <' ;=8;2 =' 8:3' & <7 3<' &' ?: 7' ?;=' ;8' 8:9=' 7 7328' 2 8' &;<' 92' &< 28' &' =8 <H;' ?:953' 8:3' 5;883<' ?;=' =8955' ;8' ;4<94,' 289X

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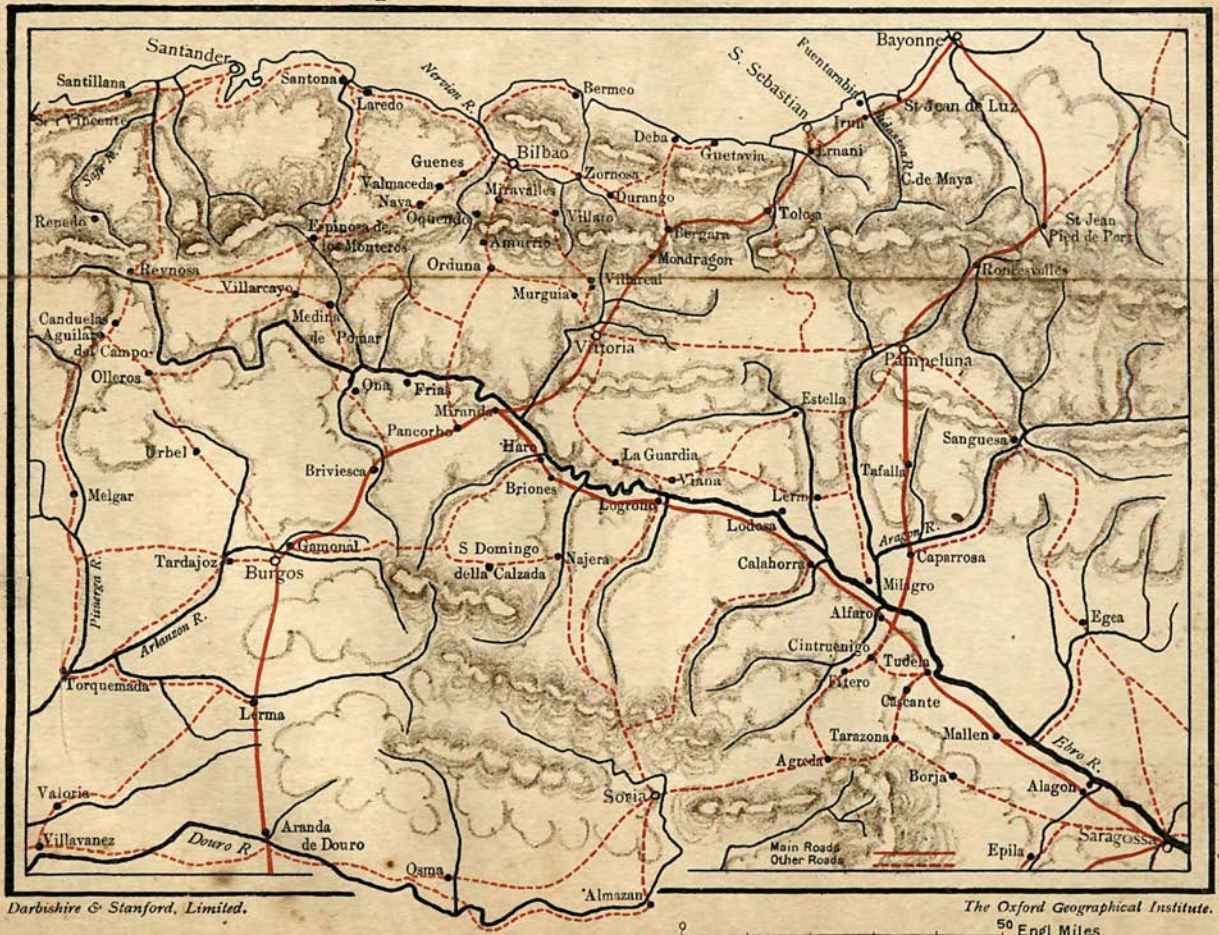

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M] ‘ / ‘ ‘ ‘ ‘ MM

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; ‘ %D

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D (&.(6% & O% ' &+46 ' %)' O%& +=-74/(. ,* ' + ' %, ' 5%44) .' (44 5 .0(.' O+ +8+,'
0(2 ' ,+ .0()' Q ' +) ' +8+)' %) -472%)3 .0+ 1+4(.+2 ., /& 6 .0+ &.' ()2
,2)2(47&%()' 2%8%&%)& 50%-O -(' + 7/ %)' 8+ ' 1+,
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653 ' 8 : 32 92 : 9H : ' &; B @< ?98 : ' ; 5 ; & G, 8 7 ; 6 C3 & @24 92 8 : 3 3D <4
&&9D3,

;AFAP . * 4 / 0 * 3 7 * 3 / # 1 " A@
k
8:3 8 8;5 & ;5;& GA= <;H 23=3 ?: ?328 8 8:3 &< 28 & < 8:3
D;7 ;9H2 & D8 C3<;24 B37C3<?;=;C @8 $###7 32, :3
<3=8 ?3<3 53&8 C3:924 ;8 ;<;H ==; C392H 2 8 638 <H;29R34 <
3J@9 34 & < &9354 =3<B9D3,
@8 ;5;& G :;4 ;5= 92 :9= ;<76 8< =)?:9D: 494 2 8 C35 2H
8 :9= 2;89B3 >92H4 7, :3=3 B3<3 8:3* @<D9;2=;24 /;532D9;2=
& ;928 ;<D: ;24 A 39553 ?: ;&83< 8;>999H ;<8 92 8:3 D;7V
;9H2 ;H;92=8 2D36 :;4 <9 8 7;<D:34 ?98: 5;7;= 8 ;4<94
C@8 :;4 8@<234 &&8 ;94 92 <;9=92H 8:3 =93H3 & ;<;H ==;, ;928
;<D: :;4 < @H:8 ?98: :97 & @<8332 C;88;59 2= ;24 ;D;B;5<6
<3H97328 A 39553 :;4 ?98: :97 8:<33 7 <3 92&;28<6 D < =, :3
8 8;5 & 8:39< & <D3 <3;D:34 $##5 C;6 238= ;24. N$#=;C<3=,
4492H 8:3=3 8 8:3 C3=8 & :9= ?2 <;H 23=3 53B93= ;5;& G
=328 @8 $I ###7 732K & 8:3=3 256 ;C @8 M##5 ?3<3 D;B;5<6
& <D3 =@D: ;= 8:9= C;D>34 C6 8:3 7;== & @2 <H;29R34 53B93=
;8 ;<;H ==; ?;=C;<356 =@&&9D9328 8 7;928;92 ;43&32=9B3 =989 2
2 8:3 &< 2893<= & <;H 2, @8 8:3 -@28; ?98: H<3;8 @2?9=4 7
D;73 8 8:3 D 2D5@=9 2 8:;8, ;5;& G ?;= =8< 2H 32 @H: 2 8 256
8 : 54 :9= ?2 ;H;92=8 8:3 <32D: 92 :9=97 7349;83 &< 28 C@8 8
= ;<3 = 73 8< = 8 <392& <D3 8:3 ;<76 & ;8;5 29;, 6 8:39<
<43<= :3 8 54 && =9G C;88;59 2= = 73 L###7 732 ?: ?3<3
5;D34 @243< 8:3 D 7 7;24 & :9= C< 8:3< 8:3 ;<J@9= & ;R;2
;24 49= ;8D:34 8 3<94; ?98: 8:3 CX3D8 & ;9492H 8:3 ; 8;92.
%323<;5 & ;8;5 29; 8 C3=93H3 @:3=73 92 ;<D35 2;,
< ?;= 8599= 8:3 256 & <D3 8:;8 ?;= 4<;?2 &&&< 7 8:3 7=.92
8:3;8<3 &8:3 ?;< 92 <43< 8 8;>3 ;<8 92 :35 92H 8:3 ;8;5;2= ?: :;4 :98:3<8 < B34 J@983 =8< 2H 32 @H: 8 \:35 8:37=35B3=,
:3 -@28; 49<3D834 3492H 8:3 B9D8 < & ;6532 8 8;>3 D 7 7;24
:3 /;532D9;2 ;24 @<D9;2 D 28<9C@89 2= 8 8:3 ;<76 & <;H 2 D 2=9=834
&8:3& 55 ?92H 8< =K 23 54 5923 <3H97328 &8:<33C;88;59 2= 0 / 5@2833<=
& ;=8953P 8:3 7 95989; C;88;59 2 & <9; ;24 & 23?53B93= 8:3 =8 ;24 $24
/ 5@2833<= & @<D9; 8:3 $24 / 5@2833<= & /;532D9; 8:3 <3H97328= & @<9;
08:<33C;88;59 2=P 59D;283 08:<33,C;88;59 2=P 3H <C3 08? C;88;59 2=P <C 2
:35B; ;24 ;R;4 <3= 43 3<2;24 / 8:3 <;H 2= & @7;2D9; 0;2
54 D < =P ;24 8? =J@;4< 2= & 23?/;532D9;2 D;B;5<6, H38 8:3=3 2;73=
;<856 &< 7 8:3 <38@<2 & B, 92 8:3 3D <4 &&9D3 ;8 24 2 ;<856 &< 7
;928 ;<D:A= <38@<2 &:9= >95534 ;24? @2434 ;8 @435;, 737 <3 @<D9;2
D < = =8;<834 8 X 92 ;5;& G C@8 ?3<3 2 8 92 8973 & <* @435; 8: @H: 8:36
8 > ;<8 92 8:3 =3D 24 43&32D3 & ;<;H ==;\K B9R, &4);24 N8: / 5@2833<= &
@<D9; 8:3 <3H97328 & 5 <94; 5;2D; ;24 =8 ;24 $24 9<;4 <3= & @<D9;,
; +%, &.(,& 7 @<D9; 2 D8, -I 9= 2 834 92 8:3 1 N & M##M
O : IINP,

&; 55 8:3 %<;2;4;2 8< =92 8:3 ;<76 & 24;5@=9; ;24 53;4 8:37 8 <8 =; ?98:8:3 CX3D8 &X 9292H ;R;2, 98: 3492H 8:3<3 92;<D:34 23;<56 ###7 32 K 8 <;9=3 8:9= & <D3 ;55 8:3 <3H97328= C35 2H92H 8 8:3 >92H4 7 &%<;2;4; :;4 C332 4<;&834 @8 &< 7 8:3 =8 ;24 $24 9B9=9 2= &; =8;2 =A ;<76 ?:9D: ?3<3 8:@= 7@895;834 C3& <3 8:36 <3;D:34 8:3 C< ; 8: =3 D 7V ;<;89B356 B383<;2 8< =?3<3 ;4434 39H:8 23?C;88;59 2= &<;?53B93= 8:3 <3H97328= &; R; 573<9; G; ;24 ;28; 3, 8;<892H 2 8:39<5 2H 7;<D: &< 7 %<;2;4; 2 D8 C3<M 8:3 :3;4 & 3492HA= D 5@72 :;4 256 <3;D:34 @<D9; 2 D8 C3<$$;24 ?;= 8:@= : 353==56 49=8;28 &< 7 ;26 928 ?:3<3 98 D @54 :;B3 C332 @=3&995 ?:32 8:3 D;7 ;9H2 C3H;2 < ?;= 8:9= 8:3 5;=8 438;D:7328 ?:9D: 8:3 -@28; 49<3D834 2 ;8;5 29;K 98 =328 8:98:3< ;<8 &8:3 <9= 23<= &< 7 9=C 2 ?: 7 8:3 2B3289 2 & 928<; :;4 4359B3<34 I ##& 8:3 732 ?: :;4 2D3 & <734 8:3 49B9=9 2 &; ;<;&&;, ;H@2; ?: 2 ?: 354 8:3 D 77;24 5;2434 &< 7 2H59=: 8<;2= <8= ;8 ; ; 98; 23;< <8 =; 2 D8 C3<$;24 7;<D:34 &< 7 8:32D3 2 ;<<;H 2;`,

8 9= =;&3 8 =;6 8:;8 &8:3=3 $I ###7 32 8<;2=&3<<34 8 ;8;5 29; &< 7 <;H 2 %<;2;4; ;24 <8@H;5 3B3<6 7;2 @H:8 8 :;B3 C332 @=:34 & <?;<4 8 :35 ;=8;2 = 2 8:3 C< ;24 2 8 49=8<;D834 8 8:3 =943.9==@3 ;8 ;<D35 2;, 8 ?;= 7;4 8 =324 8:37 8:98:3<?:32 8:3 7;92 &<D3 &;D92H - @<4;2;24 092H - =3 :4942 8 638 ;7 @28 8 ### 732, ;8;5 29; ?98: =@D: =7;55 ;94 ;= 8:3 ;53;<9D =5;24= D @54 H9B3 ?;= =8< 2H 32 @H: 8 43&324 :3<=35& ;H;92=8 8:3 7 8536 :<43= &; @:3=73 ;24 39553,

8 8:3 7 7328 ?:32 8:3 &33C53 &&32=9B3 &; ;=8;2 = ;24 ;5;& G C3H;2 2 8:3 5923 &8:3 C< 8:3 <32D: ;4 = 73 N ### 732 <;2H34, =983 8:37 1* ?:953 ; <3=3<B3 & # ###?;= & <734 ;8

- @=8 L " # ;DD <492H 8 8:3 438;95= H9B32 92 8:3 & < D8, $0 ; I "P, " 33 76 3249G 2 8:3 ;29=: & <D3= 92 D8, , + ; * $ D8, $M0 ; IM P,

* C94, B, 0 , L# P,

:3 &9H@<3= H9B32 C6 - @<4;2 92 :9= # =337 J@983 ;DD@<;83 ;24 ;<3 C <23 @8 C6 ;55 8:3 438;95= 92 , &* * &.$ 8:36 ;<3 K

< = & 3==93<3= W$24 < =] N"

< = & 2D36 WI<4 < =] ; ; $# L

< = & 36 WN8: < =] 92D 7 5383 ;) M "N

:3 092HA= H323<;5 <3=3<B3 ; ; N #MM

%;<<9= 2= & ;B;<<3 ;24 9=D;6 ; , NN"

NL "LM

M##M] % 0 % - A I M"

;6 223 ;24 8:3 53;492H D 5@7 2= &8:3 T%<;24 <7 6A &< 7 %3<7 ;26 ?3<3 256 832 <8?35B3 7 ;<D:3= ;?;6, ; 53 2 :;4 C6 ; 43D<33 9==@34 2 3 837C3< <3D;=8 8:3 & <7 &:9= F<7 6 & ;92, 8 ?;= 92 8:3 &@8@<3 8 D 2=9=8 &=3B32 ;<7 6 D < =,, :3 =8 L8: ;24 N8: ?3<3 8 C3 D 7 =34 & 54 49B9=9 2= &< 7 8:3 :923 ;24 8:3 5C3, &8:3 & <D3= ;5<3;46 2 8:3 = 8 3==93<3=A 8< = ?3<3 8 & <7 8:3 $24 < = 2D36A= 8:3 I<4 8:3 =895X 92D 7 5383 49B9=9 2= @243< 36 8:3 N8:, :3 ;<7 6 & ;8;5 29;)?:3<3 8, 6< ?;= =@ 3<=3492H 39 3 & <7 34 8:3 8: < = -@2 8A= ;<7 6 &< 7 <8@H;5 ?:32 98 2D3 7 <3 ; 3;<34 @ 2 8:3 =D323 7 ;43 8:3 M8: C@8 92 3 837C3< ; 53 2 494 2 8 638 >2 ? &98= &;83 ;24 98 256 <3D39B34 98= 2@7C3< ;24 98= 5;D3 92 8:3 : =8 ;8 ; 7@D: 5;83< 4;83, ;26 ;583<;89 2= &438;95 ?3<3 7 ;43 92 8:3 C<9H;43= ;24 49B9=9 2= 8:;8 & <7 34 8:3 23? $<94 ;24 I<4 < =, 55 8:3 8 ?3<3 ;C 59=:34 ;24 8:39< 732 4<;&834 928 8:3 54 <3H97328=, :3 &9&8332 T < B9=9 2;5<3H97328= A ?:9D: :;4 D 7 =34 8:3 ?: 53 & 2D36A= ;24 ; D 2=943<;C53 ;<8 & 3==9>3=A =8<32H8: ?3<f 8;>32 928 8:3 <3H@5;<3=8;C59=:7328 &8:3 ;<7 6 ;24 <32@7C3<34 ;=8:3 L8: $#8: &8:3 923 ;24 8:3 II<4 3H3<8? < B9=9 2;5<3H97328= C392H 8 54 &&8 & <7 3;D: &8:3 23?C 493= , :3<3 ?;= ; D3<8;92 ;7 @28 &=:9&892H &@298= C@8 92 8:3 7 ;92 8:3 C<9H;43= ;24 49B9=9 2= &8:3=3 8? D < =<37 ;9234 928;D8,

2 <;C @8 D8 C3<M. # 3==9>3= 5;6 ;8 9<;24 ; ;24 @<H@9; ; 6;<492H ;H;92=8 ;26 ==9C53 43=D328 & 5;>3 &< 7 /955;<D;6 @ 2 8:3 3< C< , 36 ?;= ;8 ; %@;<49; &;D92H 9H2;83559A= ;=8959;2= ?: DD@ 934 :9= 54 :3;4 J@;<83<=;8 H< 2 , 2D36 :;4 8:< ?2 C;D> :9= 53&8 8 H@;<4 ;H;92=8 ; ==9C53 43=D328 & ;5;& G @ 2 ;B;2A3 ;24 ?;= C3:924 8:3 5923 &8:3 <9B3< <;H 2 ?98: :9=<9H:8 ;8 =8355; :9= D328<3\;8 ;5D3= ;24 ;&;55; ;24 :9= 53&8&;D92H ;2H@3=; ?:3<3 98 ?;= =34 C6 8:3 ;4B;2D34 49B9=9 2 &8:3 ;<7 6 & ;5;& G @243< A 39 3, <8:3 ;8;92.%323<;5 & 9A;H 2 53;=34 ?98: ; 5;2 < =34 8 :97 C6 5 235 653 8:3 2H59=:7 9598;<6 ;88;D:3 92 :9= D;7 :;4 <3= 5B34 8 7;>3 ;5 2H 8@<292H 7 B37328 @243<8:3< 8= &8:3 6<3233=3G;D856 ;<;5535 8 8:;8 ?:9D: 5;>3 ?;= 3G3D@892H ;8 8:3 8:3< 324 &8:3 5923, 98:8:9= CX3D8 :3 =328 @8 &< 7 ;<;H ==; 2 3 837C3< $"

 8 ?;= <9H92;556 8 C3 D;5534 8:3 N8: :@8 8:9= 89853 ?;= 8;>32 &< 7 98 92 <43<8:;8 <893<A= D < = 79H:8 >33 98= 54 2@7C3<,

* <8:39< 49=8<9C@89 2 =33 , #,

I "#' ' ' ' - ' E &*' #

A 39553' ?98:' ;' 49B9=9 2' &' <;H 23=3' =8<32H8:3234' C6' ;' &3?'
@<D9;2' ;24' /;532D9;2' C;88;59 2='';24' 2957C3<92H' = 73' "###'
C;6 238=,' :9=' 438;D:923:8' 7;<D:92H' 92' ;' 539=@<356' ?;6'<3;D:34'
;2H@3=;' 2'8:3' 3<' <;H 2'C@8'8:3<3'=8 34'=:<8' 2'H38892H'
92& <7;89 2'8:;8' 2D36A=' D < =' 5;6' C3& <3' 98' 92' = 73' =8<32H8:,'
;5;& G' 8:32' =328' @ '92' =@ <8' ;' =3D 24' 49B9=9 2,' ;928' ;<D:A='
,@<D9;2=X';24'/;532D9;2='?:';4B;2D34'8' H3;';24'8:3<3':;5834,'
:3<3'?;=' D 2=943<;C53' C9D>3<92H' ;55' 8:< @H:'8:3' =3D 24' :;5&' &'
D8 C3<' 2'8:9=' 5923'C@8' ;2H@3=;'<37;9234'92'8:3':;24=' &'8:3'
;29;<4='' 2D36'C392H'8 '7@D:'49=8<;D834'C6'8:3'7 B37328=' &'
;=8;2 =' 92'8:3'49<3D89 2' &' @435;'8'4;<3'8'D 2D328<;83' 2=' ?:' 53'
;& <D3' &' <';'C5 ?';8' ;928' ;<D:';24' A 39553,' :3'5;883<' 2'8:3'
8:3<':;24':;4'<3;59R34'8:;8'9&'8:36' <3==34'&@<8:3<'& <?;<4'8 ?;<4=,'
;7 3597;';=' 8:39<' D 7 7;243<.92.D:93&':;4' <9H92;556' 92832434'
8:36' ? @54' 53;B3' 2D36'='7@D:'92'8:39<'<3;<'8:;8':3' D @54' D@8'
8:37' &&' C 8:'&< 7' ;<;H ==;';24'&< 7'8:3' <76' &'8:3' 328<3,'
3<3'8:32'7;883<=':;4'D 73'8';'43;45 D>' C@8'8:3' =989 2'?;=';55'
92'&;B @<' &'8:3' <32D:'?:'5;6'D 7 ;D856'92'8:3'D328<3'?:953'
A 39553';24' ;928' ;<D:'?3<3'=3 ;<;834'&< 2X' ;=8;2 =' C6';'H;' &'
=9G86'7953='';24' 5;>3' 2'8:3' 8:3<'?92H'?;=';C @8'=3B3286'0;='8:3'
D<?'&593=P'&< 7'8:3';<76' &' ;=8953,

C< 8:3< &8:3 ; 8;92.%323<;5P &@ 9H26 3492H=D553;H@3 ;88:3B9D8 <6 &;6532 ;24 8:3 928<9H@92H 243 43, 289X , :3 -@28;? 3<3 9249H2;28 8:;8 ;=8;2 = :;4 2 8 7;43 C<9D>= ?98: @8=8<;?, 59 @H:8:36::;4 2 8 H9B32:97;26 ; <3D9;C53 <392& <D37328=8:36::;4 3G 3D834 5997 8 ;88;D>8:3 9A32D:;24 ?92 ;H<3;8B9D8 <6C36 24 8:3 C< 2=D9 @=8:;8 8:343 @893=D;73 8 :97 92 2 &<9324 56 = 9<98 ;=8;2 = 23B3<8:353==<3D39B34 8:37 B98:;55 <3= 3D8 ;24 5;94 C3& <3 8:37 8:3 49&&9D@5893= &:9= +=98@;89 2, - =3 : ;5;& G D;73 @ &< 7 ;<;H ==;8 X 92 8:3 D 2&3<32D3 ;24 ;&83<;5 2H ;24 =8 <76 7 33892H 8:9= ?;= 8:3 D 2&3<32D3 ? :9D:= 49=H@=834 5 235 %<;:;7 98 B;=43D9434 8 <3=@73 &&32=9B3 3<;89 2= W B37C3<],: 3 943;?;= ;7;4 23 & <=9G 4;6= C3& <3 8:3 D @2D95 &B;<?;= :354 8? <32D:;<<;6 D <=8: =3 &/9D8 <;24 3&3CB<3 :;4 D< ==34 8:3 94;==;;24 3283<34 ;92, :3<3 ?3<3 2 / ### 92=83;4 &N ### 3237 93= 92 &< 28 &8:3 ;29=:;<793=, <3 B3<;24 8:9= ?;= =8955 7 <3 97 G8;28 ; 53 2 :97=30:;4 <3;D:34 ;6 223 2 B37C3< I,

3B3<8:353==98 +..:<3= 5B34 2D3 7 <3 8 @=:& <?;<4 ;24 &;55 @ 2 2D36, ;=8;2 = ?;= 8 53;B3 23 49B9=9 2 ;8 ;5;: <<;;24 8 C<92H 8593 <3=8 &:9=;<76 B3< 8:3 C< 8 ;88;D> 8:3 C<94H3 &; ;<< =;K A 39553;24 ;928 ;<D:?3<3 8 D 73 4 ?2 &< 7 ;2H@3=;8 D . 3<;83 B98:97K - =3 : ;5;& G);= 8 C<92H @ 8:3 <;H 23=3 <3=3<B3= &< 7 ;<;H ==;, :3 256 =9H2 &<@432D3 8:;8; 3;<34 ?;= 8:;8 8:3 D @2D95 &B;<;H<334 2 8 8 D 7 732D3 8:3 ;88;D> 2 2D36 8955 8:36::;4 53;<28 : /5;>3 ;24 8:3 ;<76 &%;59D9; B3<3 &;<92H 92 9=D;6, <8:;8 H323<;5 ::;4 ;= 8:36 >23? D 7 732D34 = 73 4;6= C3& <3 :9= =3D 24 ;4B;2D3 2 95C; , 92D3 8:3 ;<7 93= 2 8:3 328<;5 C< :@2H C;D> 98 ?;= 92 8:3 49=8;28 <3H9 2 2 8:3 D ;=8 8:;8 8:3 &9<=8 97 <8;28 D 559=9 2 C38?332 8:3 ;29;<4= ;24 8:3 <32D:<392& <D37328= &< 7 %3<7;26 B;= 8 8;>3 5;D3, <;& <829H:8 7 <3 8:3<3 ?;= D 7 ;<;89B3 J@938 92 &< 28 &@435;;24 ; ;<< =;, 3;2?:953 ;=8;2 = < =8<;834 C6 ;2 ;88;D> &8:3 H @8 O 8 >8 :9= C34 ;24 8:3 <76 &8:3 328<3 B;= ;C;24 234 & <;&3?4;6= 8 8:3 83243< 73<D93= &8:3 43 @8;89 2 &< 7 ;4<94,

:3<3 9= ;=8<;2H3 D 28<;=8 ?:32 ?3 8@<2 &< 7 8:3 =8@46 &8:3

&, ; INN ;24 %<;:;7A= $, $ N,

* DD <492H 8 <3&9 S C@8 %<;:;7 ?:?;= <3=328 92 8:3 D;7 D;55=X98 <:3@7;89=7,

@< 4;6= 5;83< 2; ;9)83 J@98834 ;<9= ;24 ;==92H :;=8956 8:< @H: <53;2= ;24 <43;@G <3;D:34 ;6 223 ;8 8:<33 AD5 D>92 8:3)7 <292H &B37C3< I, :3 D < = &/9D8 < ;24 3&3CB<3 ?98: 8? 49B9=9 2= &4<;H 2= ?3<3 =3B3<;5 4;6= ;:3;4 &:97 ;24 :;4 ;5<3;46 D< ==34 8:3 94;== ;, :3 7 3<9;5 %@;<4 ;24 8:3 49B9=9 2= 43=89234 & < 36 ;= ?355.;= ;H<3;8 7;== &D;B;5<6 ?3<3 X@=8 D 2B3<H92H 2 8:3 &< 2893<, <893<A= D < = ?);= 2 8 B3<6 &;< &&K -@2 8A= ;<76 &< 7 <8@H;5 :;4 ;5<3;46 5;2434 ;8 9U@9C3< 2 ;24 D:3& <8 ;24 ?;= C392H 49<3D834 2 <43;@G, 55 8:3 7 ;D:923<6 & <8:3 H<3;8 C5 ?;?;= 2 ?<3;46,

; 53 2 < & @2456 43= 9=34 8:3 ;29=:;<76 ;24 8:3 ;29=: H323<395=;, 9= D <<3= 2432D3 9= &@55 &D 2837 8@ @= ;55@=9 2= 8 8:37 K 3B3< =92D3 :3 =3<B34 ;8 @5 2 :3 >23?8:37 & <8:3 ? <=8 8< = 92 @< 3,A T 8:92H D @54 C3 = C;4 ;= 8:3 ;29;<4= 8:36 ;<3 73<3 <;CC53 N ### <32D: D;2 C3;8 $# ### &8:37 ,A T :3 ?: 53 ;29=:;<76 D @54 2 8 8@<2 ### H 4 8< = @8 &;= =989 2 8:;8 :;4 C332 < 3956 DD@ 934 ,A 3B3<8:353== :3 :;4 4383<7 9234 8 <@2 2 <9=>bK 8:3 =3D 24 3292=@5;< D;7 ;9H2 7@=8 2 8 324 59>3 8:3 &9<=8 92 ;&9;=D ;24 ;:@7 959;892H <38<3;8, 8 ?;= & <8:9= <3;= 2 8:;8 8:3 7 3< <:;4 7;==34 7 <3 8:;2 $ # ### H 4 8< =;H;92=8 8:3 8@7@58@;<6 53B93= &8:3 -@28; 1 ;& <D3 ?:9D: 92 :9= <9B;83 929 2 ?;= &;< 7 <3 8:;2 32 @H: 8 =?33 8:3 ?: 53 &:9= ;4B3<=;<93= 928 8:3 =3;C3& <3 8:3 63;< M#M =: @54 :;B3 <@2 @8, 26 3G 34989 2 92 ?5@D: :3 :97 =35& 8 > ;<8 7@=8 & <8:3 =;>3 &:9= <3=89H3 C3 D 24@D834 &< 7 C3H92292H 8 324 92 ;= =3<93= &= 3D8;D@5;< 8<9@7 :=, 8 ?;= C3883< 8 @=3 ;5;<H3< ;<76 8:;2 ?;= ;C= 5@8356 23D3==;<6 92 <43< 8 7;>3 :9= C5 ?= =@&&9D93285 6 :3;B6 ;24 8 H38 8:3 ;29=: C@=923== B3< ;= <; 9456 ;= ==9C53, &8:3 ?: 53 3292=@5;?3<3 B3<<@2 92 ;&3?.7 28:= ;24 <3=9=8;2D3 :;4 C332 D 7 538356 C3;832 4 ?2 3<3 8:3 ?9283< ?;= B3<8:3<3 ? @54 C3 2 D:;2D3 &8:;8 9283<B3289 2 2 8:3 ;<8 &@=8<9;? :9D: ?;= 8:3 256 4;2H3< 2 8:3 5989D;5 : <9R 2

* : =3 &;<D:;24 ;@4 9== 2 & <792H 8:3 54 N8: < = ?98: ?:9D: :3& @H:8 ;8 -32; ;24 <9345;24,

* ; 53 2 8 - =3 : 2; ;<83 8 ;@5;92D @<8 8 @H323 3;@:;7;9= 0B 5=* GB99 GB999 &, & * &

* :3 D53;<3=8 < & ?:9D: &924 92 8:3 , & * & & 8:3 7 3< <A= 9283289 2 8 =?33 B3<8:3 ?: 53 3292=@5; ?98: ;=92H53 <@=: 9= 8:;8 ;5<3;46 92 B37C3< :3 ?;= ;==37C592H ;8 ;6 223 2;B;5 &&9D3<= ?:

M#M] A % I""

5;>3 C38?332 @<;2H ;24Q 7 R;;24 8 : 54:97&;=8?98: @8 E <3==92H:97,' 2D36?98:8:3 I<4 < =92;=97 95;<?;6??;= 8 T)D 28;92A ;5;& G A;24 ;=8;&9 = &< 7 :9= =8= ;8 4 =;; ;<< =;;24 ;&;55;, 3;2?:953 /9D8 <?98:8:3 23?56 ;<<9B34 =8 < =?;= 8 3243;B @<8 H38928 5;>3A=<3;<C6 8:3 < ;4 /988 <9; @<H@9; <4@2;, :3 7;92C 46 &8:3;<7 6 D 2=9=8V 92H &8:3 8< =) & 3==93<3= ;24 36 0 92H - =3 :A= <3=3<B3 8:3 7 3<9;5 %@;<4 ; 4 & @< 49B9=9 2= &D;B;5<6 ?);= 8 7;<D:2 9 @<H =; ; 53 2>23?8:;8 8:3<3?;=2 5;<H3 C 46 & ;29;<4= 92 8:;8, 5;D3K :3 3G 3D834 8 &924 8:3<3 9H2;83559A= T <7 6 & ;=8953 A C@8 8:9= & <D3 0;= ?3 :;B3 332P :;4 D3;=34 8 3G9=8 :;B92H C332 4<;&834 ?98: 9H2 7926 928 8:3<;2>= &8:3 ;<7 6 & 24;V 5@=9;' = ;' 7;883< &;&;D8 @<H =?;=2 ?' DD@ 934 C6 ;'23?' & <D3 &< 7 8:3 =3D 24 5923 8:3 5 2H.3G 3D834 ;<7 6 & =8<37;.' 4@<;' = 73 $ ### =8< 2H ?:9D:';4;8 5;=8 D 73 @ &< 7 ;4<94 ;24*8;>32 98= 5;D3 ;8 8:3 &< 28, @8 ; 53 2A= <3;= 292H =8955 :354 H 4K ;26 ;29=:';<76 8:;8 79H:8 D:;2D3 8 C3 ;8 @<H = 7@=8 C3 B3<?:357 34 C6 8:3 32 <7 @= 7;== &8< = 8:;8 ?;= J;C @8 8 C3 :@<534 @ 2 98, :3 7 7 328 8:;8 98 ?;= 49= =34 & 36 ?98:8:3 N8:' < = ?;= 8 ?:335 8 8:3 3;=8 ;24 7;<D:C6 <;24;;24 <9;= ;= 8 5;D3 :97=35& C38?332 ;=8;&9 = ;24 ;5;& G;24 ;4<94, :32:3 ? @54 8@<2 8:39<&5;2>;8 ;<;R 2;; 24 @435;;24)92 D 2X@2D89 2 ?98: 2D36 4<9B3 8:37 2 <8:V ?;<4;H;92=8 8:H 6<3233=, 2 ;=97 95;<?;6 @ 2 8:3 8:3<&5;2> 8:3 $24) < = ?;= 8 ?:335 8 8:3 2 <8:.?3=8 ;24 7;<D:&< 7 @<H = 2 362 =;8:3<3 8 9283<D3 8 5;>3 9&:3 ;4 2 8 ;5<3;46 C332 D@8 &&C6 /9D8 <A= =:<83<8@<292H 7 B37328, 3;2?:953 8:3 7 3< <?98:8:3 <3=8 &:9= ;<76 & 55 ?34 C6 8:3 23?<3=3<B3= 0 <893<A= D < = ;24 8:3< 8< =P ?:9D: ?3<3 4@3 &< 7 <;2D3 ? @54 7;<D:=8<;9H:8 &< 7 @<H = 2 ;4<94 & <D3 8:3 43&953= &8:3 7 =93B<;;24 %@;4;<<;7;;24 =39R3 8:3 ;29=:D; 98;5, 3?;=?355 ;?;<3 8:;8:3<3? @54 C3 2 =3<9 @= :=8953 & <D3 92 &< 28 &:97 =92D3 8:3;<793= &5;>3 ;5;& G ;24 ;=8;&9 = ?3<3 ;< B9434 & <, 3 4 3= 2 8 =337 8 :;B3 >2 ?2 &8:3;<76 & =8<37;4@<;<8 :;B3 :;4;26 943;8:;8:8 2H59=:& <D3&< 7

; 53 2 8 3==93<3= B, NK T -A;9 B@ B = 43 3D:3= 4@ N 2 B37 8<3 M@< A3G9=832D3 4A@2 D < = 43 $L ### : 7 73= ;@<H =, 9 D35;3=8 D3 23 328 38<3 J@3 $ ### : 7 73= 43 A;<733 43 %;=89553 J@9 28 3/;D@3 H< &9 38 J@9 23 = 28 ;= 32 D;= 43 &;9<3 8383 ;I ### @L ### 43 B = H32=A;, &* & $ L LLI GB999, IMP,

L## ‘ ‘ % % W B,’ N

<8@H;5‘ 7 9H:8‘ D 2D39B;C56‘ C3‘ 2‘ 8:39<‘ ?;6‘ 8 ‘ D B3<‘ ;4<94,A :3<3‘ 9=‘ 2 ‘ 7 3289 2‘ &‘ 9<‘ - :2‘ <3‘ ;24‘ :9=‘ : =8‘ 92‘ 8:3‘ 9 7 3<9;5‘ 49= ;8D:3=‘ 8955‘ 3D3 7 C3<‘ ,‘ j ‘)

55‘ C392H‘ <3;46 ‘ 2; ;<83‘ < 43‘ @8‘ &‘ ;6 223‘ 2‘ B3 7 C3<‘ L ‘ :;B92H‘ =8;634‘,8:3<3‘ 256‘ 8:9<86.=9G‘ : 9@ ,‘ 3& <3‘ 53;B92H‘ :3‘ :;4‘ <3D39B34‘ 23‘ B3G;89 @=‘ 93D3‘ &‘ 23?=K 3&3CB 3‘ 92‘ 49<3D8‘ 49=V C34932D3‘ 8 ‘ :9=‘ <43<=‘ :;4‘ ;88;D>34‘ 5;>3‘ 2‘ D8 C3<‘ I ‘ ;24‘ & <D34‘ :97‘ C;D>‘ C36 24‘ 95C; ,‘ :9=‘ 7;43‘ 8:3‘ 5;2‘ & <‘ 8:3‘ D@8892H‘ &&‘ &‘ 8:3‘ ;<76‘ &‘ %;59D9;‘ ;‘ 598853‘ 7 <3‘ 49&&9D@58‘ =92D3‘ 8:3‘ ;29;<4=‘ ?3<3‘ 2 ?‘ & <86‘ 7953=‘ &@<8:3<‘ C;D>‘ ;24‘ 2 8‘ 23;<56‘ = ‘ 7@D:‘ 3G =34‘ ;=‘ 8:36‘ :;4‘ C332‘ :98:3<8 ,‘ @8‘ 98‘ ?;=‘ =8955‘ 2 8‘ 97 ==9C53‘ 8:;8‘ /9D8 <‘ 7 9H:8‘ =@DD334‘ 92‘ D9<D@ 7 B32892H‘ 8:37 ‘ ;24‘ & <D92H‘ 8:37‘ 928 ‘ 8:3‘ ;6‘ &‘ 9=D;6,

8‘ 9=‘ 97 ==9C53‘ 8 ‘ ?98:: 54‘ @<‘ ;4 7 9<;89 2‘ &< 7‘ 8:3‘ 7 3< <A=‘ =97 53‘ 638‘ ;55.3 7 C<;D92H‘ 5;2‘ &‘ 3<;89 2=,‘ 8‘ 9=‘ 8<@3‘ 8:;8‘ 8:3‘ D;7 ;9H2‘ ?;=‘ 7;43‘ 7 <3‘ 3;=6‘ C6‘ 8:3‘ &;D8‘ 8:;8‘ :3‘ ?;=‘ 43;592H‘ ?98:‘ <;?‘ ;24‘ @249=D9 59234‘ ;<7 93=‘ ;24‘ 923G 3<8‘ H323<;5=,‘ 8‘ 9=‘ 1;5=‘ D53;<‘ 8:;8‘ :3‘ <9H:856‘ <3D> 234‘ 2‘ :;B92H‘ 8? ‘ 7 32‘ 92‘ 8:3‘ &9354‘ ;H;92=8‘ 3B3<6‘ 23‘ ?: 7‘ 8:3‘ ;29;<4=‘ D @54‘ < 4@D3,‘ @8‘ 8:3‘ 3GD35532D3‘ &‘ ;‘ =D:37 3‘ 9=‘ 2 8‘ 8 ‘ C3‘ X@4H34‘ 7 3<356‘ C6‘ 8:3‘ 49&&9D@5893=‘ 92,‘ 98=‘ ? ;6‘ ;24‘ 7 9598;<6‘ H329@=‘ D;2‘ C3‘ 49= 5;634‘ 92‘ 43;592H‘ ?98:‘ ;2‘ 3;=6‘ ;=‘ ?355‘ ;=‘ ?98:‘ ;‘ 4;2H3< @=‘ < C53 7 ,‘ ;5&;‘ 4 R32‘ 8:3<‘ 5;2=‘ & <‘ D 24@D892H‘ 8:3‘ 92B;=9 2‘ &‘ ;92‘ 7 9H:8‘ :;B3‘ C332‘ 4<;?2‘ @ ‘ C@8‘ 98‘ 9=‘ 97 ==9C53‘ 8 ‘ =33‘ 8:;8‘ ;26‘ C3883<‘ 23‘ D @54‘ :;B3‘ C332‘ D 2=8<@D834,‘ 2‘ 98=‘ 7;92‘ 5923=‘ 98‘ ?;=‘ D;<<934‘ @8‘ ?98:‘ D 7 5383‘ =@DD3=‘ K 8:3‘ ;<793=‘ &‘ 8:3‘ -@28;‘ ?3<3‘ =D;883<34‘ 8 ‘ 8:3‘ ?924=‘ ;24‘ ;4<94‘ &355‘ ;57 =8‘ ?98: @8‘ ;‘ C5 ?5

8‘ ?;=‘ 256‘ ?:32‘ 8:3‘ D; 98;5‘ :;4‘ C332‘ DD@ 934‘ ;24‘ 8:3‘ 8< =‘ &‘ 5;>3‘ ;24‘ 35B343<3‘ &‘ ;=8;2 =‘ ;24‘ ;5;& G‘ ?3<3‘ &5692H‘ 43V B9 @=‘ B3<‘ :;5&‘ 8:3‘ < B92D3=‘ &‘ ;92‘ 8:;8‘ 8:3‘ 49&&9D@5893=‘ &‘ 8:3‘ 3292=@5;<‘ ;<‘ C3H;2‘ 8 ‘ 43B35 ‘ 8:37=35B3=,‘ ; 53 2‘ :;4‘ 23B3<‘ C3& <3‘ :;4‘ ;26‘ 3G 3<932D3‘ &‘ 8:3‘ D:;<;D83<‘ &‘ H@3<955;‘ ?;<&;<3‘ <‘ 8:3‘ >924‘ &‘ <3=9=8;2D3‘ 8:;8‘ D;2‘ C3‘ &&3<34‘ C6‘ ;‘ < @4‘ ;24‘ <3B32H3&@5 2;89 2‘ ?:9D:‘ :;=‘ 7;43‘ @ ‘ 98=‘ 7924‘ 23B3<‘ 8 ‘ =@C 7 98‘ 8 ‘ 8:3‘ D 2J@3< <,‘ 2‘ :9=‘ D 7 5383‘ 9H2 <;2D3‘ &‘ ;92‘ ;24‘ 8:3‘ ;29;<4=‘ :3‘ 97 ;H9234‘ 8:;8‘ :3‘ :;4‘ ;‘ B3<6‘ =9 7 53‘ D;7 ;9H2‘ 8 ‘ D 24@D8,‘ :3‘ =@CX@H;89 2‘ &‘ 8:3‘ 3292=@5;‘ ?;=‘ 8 ‘ :97‘ ;2‘ <492;<6‘ 7 9598;<6‘ < C537 ‘ 59>3‘ 8:3‘ 92B;=9 2‘ &‘ 7 C;<46‘ <‘ &‘ <@==9;‘ ;24‘ :3‘ ?328‘ & <8:‘ 92‘ D:33<&@5 D 2&9432D3‘ 8 ‘ T 5;28‘ 8:3‘ 3;H53=‘ &‘ <;2D3‘ 2‘ 8:3‘ & <8=‘ &‘ 9=C 2 A‘ ;24‘ 8 ‘ T 4<9B3‘ 8:3‘ <98;229D

M#M]' ' A ' ' L#

53 ;<4' &< 7' 8:3' = 95' &' 8:3' 3292=@5;' ?:9D:' 98' 43&953=' C6' 98=' <3=32D3,A' @8' 8:3' 5;=8' D:; 83<' &'8:9=' =8 <6' ?;=' 8 'C3' 8 54' 2 8';8' 9=C 2' C@8' ;8' @5 @=3K' ;24' T'8:3' 323&9D328' < B9432D3' ?:9D:' :;4' 439H234' 8 '=8<9>3' 8:3' <989=:' 7 929=8<6' ?98:'=@D:'C592423==' 8:;8' 8:36' :;4' C332' 924@D34' 8 '=324' ;2' ;<7 6' 8 '8:3' 2892328' A' :;4' 8:3<' 43=9H2=' 8:;2' 2; ;<83' =@ =3*4,

' 33' ;H3' I"N,

8&,'

' 4

8 >'@ ';'=8< 2H' =989 2'92'&< 28' &' @<;2H '8:3'97 <8;28' 928' ;8'?:9D:'8:3'<;4='&< 7' ;6 223';24'&< 7'/988 <9;'8' 95C;' 7338, :32'D 7 7 98892H':97=35&'8':9='=3D 24'3G 34989 2'928' 9=D;6' 5;>3'?;='2 8'?: 556'@2;?;<3' &'8:3'4;2H3<=' &'8:3'=83 '8: @H:' :3'&;9534'8 '<3;59R3'8:37';8'8:39<'&<955'B;5@3'=92D3'092'D 7 7 2'9B98:' 8:3' 8:3<' ;29=:'H323<;5=P' :3'H<3;856'@243<<;834'8:3'=8<32H8:' &'8:3' <32D:';<76' 2'8:3' C< ,' 3'92832434'8 'D;<<6' @8':9=' <9H92;5 5;2' &'D@8892H' &&' 3==93<3=';24'092H'-=3 :'&< 7'8:39<' 1<38<3;8' 2' ;6 223'C6'&<D92H'8:3' =989 2' &' @<;2H ';24'=39R92H' 8:3' :9H:.< ;4';8' 3<H;<;S C@8':3'?;=' ;?;<3'8:;8';2' ;4B;2D3'8' 8:;8' 928':;4'98='4;2H3<=,' ='5 2H';=':9='49B9=9 2=':;4'5;92'92' <' ;C @8'/955;9D;6 ' ;24' /;57;D34;':3':;4';' 3<&3D856'D53;<'5923' &' <38<3;8'?3=8?;<4'92'8:3'3B328' &';'49==9=83<,' @8'8:3'7 7328'8:;8' :3' @=:34'&<?;<4'C36 24' 95C;' :3'D @54'C3';88;D>34'92'&5;2>' ;24'<3;<'C6';26'8< ='?: 7'8:3'092H'79H:8'=324'@ '&9. 7'8:3' B;5536' &'8:3' C< 'C6'8:3'8? '7 @28;92.<;4='?:9D:'<@2'&< 7'/988 <9;'8'8:3' 9=D;6;2'D; 98;5,' 23' &'8: =3'9='8:3'7;92'< @83' &< 7'/988 <9;'8 ' 95C;' B9;' @<H@9;';24' <4@2;,' :3' 8:3<'9=' ;'7 <3' C=D@<3';24'49&&9D@58' ;8:'?:9D:'53;4=';D< ==8:3'<@H:' ?;83<=:34'&<* 7'/988 <9;'C6'/9 ;<3;5;24'/955;<'8' 95C;' ,' ?;<3' &'8:3'&;D8:;8':3'79H:8'C3';==;9534'C6'398:3<' &'8:3=3'8? ' ;==3=' 5;>3'8 54' &&';' =8< 2H'D B3<92H'&<D3'8':54'8:37,' ;5&' &' D3B34 A=' =8@<9;2'49B9=9 2'L ###'=8< 2H'?;=' 5;D34';8' <4@2;'K 8:3' 8:3<':;5&'?98:'8:3'?: 53' &' ;<89232H A=' $24' 9B9=9 2' &' %;59D9;'M ##'C;6 238=' 92';55'8 >'98=' =8'92'8:3'49<3D89 2' &' /955;<,' :3=3'438;D:7328='?3<3'37923285 6'X@=89&9;C53'C@8'8:36' :;4'8:3'@2&<8@2;83'<3=@58' &'32&33C592H'8:3'7;92'&<D3'8:;8'<3.' 25;9234';B;95;C53'&<'8:3'=8< >3';8'8:3' 9A32D:'92'&< 28' &' @<;2H ,' <'8:;8' 3<;89 2' 5;>3'D @54' 256'D @28' 2':9=,'=8'I<4';24' L8:' 9B9=9 2='; =?355';='8:3'T'/;2H@;<4'A';24'T' 3=3<B3'A' <9H;43='') ;'8 8;5' &' M###'73 :

)'/9RA'/;2H@;<4' <9H;43'%323<;5' 3249R;C35' =8' 9B9=9 2'%323<;5' 9H@3<;', I<4' 9B9=9 2'%323<;5' 9J@3573', L8:' 9B9=9 2'%323<;5' ;<C;X;5' ', 3=32'3' <9H;43'%323<;5' ;:6

$ MML
L # M
L M"
I NI
I #$

%&G;

8;5

:3'438;D:34'D <='C392H
$24' 9B9=9 2'%323<;5' ;<89232H'
=8@<9;2' 9B9=9 2'%323<;5' D3B34
'4'$

N #NN
N I I

M##M ' ' / ' ' ' L#
/ 3<493< C3& <3 8 : 36. D @54)4<; ? =@DD @< &< 7 8 : 3)23 ? 56 ;<<9B34
 D 9. =, : 3 8 : 3< ? ;= 8 &; 55 C ; D> 8 2D3 8 ; =989 2 92 ? : 9D :
 : 3 D @54 2 8 C3 32B35 834 ; 24 @8&5 ; 2>34 9,3, 8 <389<3 C3 : 924
 95C ; : 5492H 8 : ; 8 8 ? 2 1?98 : 2 8 : 92H 7 <3 8 : ; 2 ; = 7 ; 55 438 ; D : V
 7 328 ? : 9D : D @54 3 ; =956 H38 ; ? ; 6 9& ; 88 ; D>34, @8, 5 ; >3 494
 2 8 : 92H ; 24 ? ; 9834 92 8 : 3 =@ <3 7 356 4 ; 2H3< @= =8 &Q <2 R ;
 92 &< 28 & @<; 2H 8955 8 : 3 323 7 6 &355 @ 2 : 9 7 ; 8 : 9= 539=@<3,
 : 3 8< = ? : =3 ; <<9B ; 5 ; 8 <@2 : ; 4 C332 <3 <834 D 2=9=834 &
 8 : 3 8? 53 ; 492H 49B9=9 2= &8 : 3 L8 : < = 8 : ; 8 & 3&3CB<3
 ; 24 &8 : 3 ? : 53 &8 : 3 =8 < = 8 : ; 8 & / 9D8 <, : 3 & < 7 3<
 ; <<9B92H ; = 3 ; <56 ; = D8 C3< M 256 =3B32 4 ; 6= ; &83< 5 ; >3
 D ; 8@<34 95C ; 7 ; <D : 34 ?3=8? ; 9%4 ; 24 <3 5 ; D34 3<592 ; 24
 / 3<493< 92 8 : 3 @<; 2H =989 2, : 3 8< = &8 : 3=3 8? H323<; 5=
 ? 3<3)49<3D834 C6 0 92H - =3 : 8 <3X 92 8 : 39< < 3< D 7 7 ; 243<=
 ? : 32 <3593B34 = / 3<493< 534 8 : 3 %@ ; <4= C ; D> 8)8 : 3 D32)8<; 5
 <3=3<B3 ? : 953 3<592 <3 <834 : 9 7 =35&8 36 ; 8 ; %@ ; <49;
 D 7 32=; 83 3&3CB<3 & < 8 : 39< 43 ; <8@<3 ; 24 & <,8 : 3 2 2. ; <<9B ; 5
  & : 9= 8 : 9<4 49B9=9 2 8 : ; 8 & / ; 532D3 1? : 9D : =8955 5 ; 6 &; <8 8 : 3 <3 ; <
 / 955 ; 883A= 49B9=9 2 &8 : 3 =8 < = ? ; = =328 8 @<; 2H , ; <= : ; 5
 / 9D8 < : 9 7 =35& ? 98 : : 9= 8 : 3< 8 ? 49B9=9 2= 8 > 8 : 3 < ; 4 8
 / 988 <9; ; 24 &< 7 8 : 32D3 ; 8 8 : 3 0 92HA= <43<= 8<; 2=&3<<34 : 9 7 =35&
 8 @<H@9; 2 8 : 3 D< ==.< ; 4 B3< 8 : 3 7 @28 ; 92= 8 95C ; 3<3
 : 3 ? ; = 92 ; =989 2 8 =8<9>3 ; 8 5 ; >3A= <3 ; < ; &83< 4<9B92H &&8 : 3
 L ### 732 & D3B34 A= =8@<9 ; 2 49B9=9 2 B : 0 ; = 98 ?955 C3
 <3 7 3 7 C3<34P : ; 4 C332 8 54 &&C6 8 : 3 ; 29= : %323<; 5 8 D B3<
 8 : 9= < ; 4 ,
 0 92H - =3 : 92D59292H & < 2D3 8 ; C 54 =8< >3 ?9= : 34 8 @= :
 / 9D8 < ; D< == 8 : 3 : 955= 2 8 95C ; ? : 953 3&3CB<3 = : @54 ; 4B ; 2D3
 ; 5 2H 8 : 3 : 9H : .< ; 4 ; 24 4<9B3 5 ; >3 928 8 : 3 8< ; 3==93<3= ; 8
 8 : 3 = ; 7 3 7 7 328 7 9H : 8* 7 B3 ; 49)B9=9 2 C6 <4@2 ; ; 24 J@324
 ; 24 5 ; D3 : 9 7 =35& ; 8 / ; 592 ; D34 ; ? : 9D : 5 ; >3 ? @54 : ; B3 8 ; ==
 9& : 3 3=D ; 34 &< 7 / 9D8 < ; 8 95C ; , : 9= 5 ; 2)? ; = 3 7 9232856
 = @24 & < 8 : 3<3 ? ; = 2 4 @C8 8 : ; 8 8 : 3 8? 7 ; <= : ; 5= ? : : ; 4 ; 8
 8 : 39< 49= = ; 5 = 7 3 I ### 732 D @54 3 ; =956 : ; B3 C<@= : 34 @8 &
 8 : 39< ? ; 6 8 : 3 8? 49B9=9 2= @243< D3B34 ; 24 ; <89232H ? : 9D :
 5 ; >3 : ; 4 53&8 C3 : 924 : 97 92 8 : 3 ; ==3=, T 8 : 92H D @54 : ; B3
 <3B32834 8 : 3 7 &< 7 =39R92H 95C ; ; 24 / ; 57 ; D34 ; ; 24 8 : 3
 ; 29= : ; < 7 6 ? @54 : ; B3 C332 =@<< @2434 ; 24 D ; 8@<34, 8

 * : 3<3 9= ; D53 ; < ; 24 <3D9=3 ; DD @28 &; 55 8 : 3=3 7 B3= 92 8 : 3 # &
 - @<4 ; 2 ? : ? ; = =8955 ; D892H ; = - =3 : A= D : 93& &8 : 3 =8 ; &&0 , " .M P,

HF?' ' # $ " ' ': $ # ' K ' E &*' $"

8 : 3' C3=8' = 7 3' ;<8' &' 98' 7 9H : 8' : ; B3' 3=D ; 34' ; 5 2H' 8 : 3' D ; =8.< ; 4' 8 ' ; 28 ; 243<' 9&' 98=' D 7 7 ; 24 ' 4383D834' 3<3' 98' ? ; =' 8 ' 5 ; 83' 8 : 3' &@55' 4 ; 2H3<' &' : 9=' =989 2,'

: 9=' =D : 3 7 3' : ? 3B3<' ? ; =' 2 8' D ; <<934' @ 8K 3==93<3=' / 9D8 <' ; 24' 36' = : ? 34' 8 : 3 7 =35B3=' =34' 8 ' 98K ; 53 2' : ; 4' ; 22 @2D34' 8 : ; 8' : 3' 92832434' 3<3' 5 2H' 8 ' ; 3 ; <' 92' 3<3 2' ; 24' 8 : ; 8' : 3' 494' 2 8' ?9= : ' 8 ' : ; B3' 7 ; 883<=' : @<<934' C3& <3' : 9=' ; <<9B ; 5,' 9=' C=3J@9 @=' 593@832 ; 28=' <3&@=34' 8 ' D 2DG@*' 92' ; 26' H<3 ; 8' H323<; 5' 7 B3 7 328' ? : 9D : ' 7 9H : 8' 2 8' ?92' : 9=' ; < B ; 5,' ' / 9D8 <' 92' ; <89D@5 ; <' @<H34' 8 : ; 8' : 3' : ; 4' C332' <43<34' 8 ' : ; B3' 8 : 3' ? : 53' &' 8 : 3' =8' < =' 2D328<; 834' ; 8' / 988 <9 ; ' ; 24' 8 : ; 8' 9&' : 3' 7 ; <D : 34' 2 <8 : ? ; <4' 928 ' ' 9=D ; 6' : 3' ? @54' C3' B9 5 ; 892H' : 9=' 7 ; =83<A=' 3G <3==' D 7 7 ; 24' C' - =3 : ' 24' - @<4 ; 2 ' 8 : 3<3& <3 ' <3= 5B34' 8 ' 43&3<' 8 : 3' 3G3D@89 2' &' 8 : 39<' 5 ; 2' & <' 8 : 3' ; 229 : 95 ; 89 2' &' 5 ; >3 ' ; 24' =328' <43<=' 8 ' 3&3CB9 3' 8 ' 7 ; 92V 8 ; 92' : 9=' 43&32=9B3' =989 2' ; 8' @<; 2H ' ; 24' 7 ; >3' 2 ' & <? ; <4' 7 B3V 7 328,' 2' = ' 4 92H' 8 : 36' ? 3<3' ; D892H' 3G ; D856' ; =' 8 : 3' 7 3< <' 43=9<34, : 36' : ; 4' & <H 8832 ' : ? 3B3<' 8 ' <3D> 2' ? 98 : ' 8 : 3' 3<= 2 ; 5' ; 7 C989 2' &' 8 : 3' 54' @>3' &' ; 28R9H,' 3&3CB<3 ' 92' = 983' &' : 9=' 7 ; 26' D ; 7 ; 9H2=' : ; 4' 23B3<' C3& <3' : ; 4' 8 : 3' D : ; 2D3' &' &9H : 892H' 95' : 9=' ? 2' ; DD @28' ; ' 98D : 34' C ; 8853' &' 8 : 3' &9<=8' D5 ; ==,' : 3' ; 29=: ' ; <7 6' : ; 4' C332' 5692H' 3& <3' : 97 ' & <' ; ' ? 33>' 4 92H' 2 8 : 92H ' 98=' D 7 7 ; 243<' C392H' 3B9432856' ; f ; 94' 8 ' ; 88 ; D>,' 8=' & <D3' ? ; =' 2 8' B3<6' H<3 ; 8 924334' 98' ? ; =' @82@ 7 C3<34' C6' 8 : ; 8' &' 8 : 3' ; <= : ; 5' ? : =3' 8 : <33' 49B9=9 2=' D @2834' 2 8' 53==' 8 : ; 2' $ ###' C ; 6 238=` ; ' 892H' B48 : ' 8 : 3' 363' &' ; 2' 54' = 5493<' 5 ; >3A=' 9243D9=9 2' ; 24' CB9 @=' 89 7 9498 6 ' : 3' D @54' 2 8' <3=9=8' 8 : 3' 83 7 8 ; 89 2' &' & ; 5592H' @ 2' : 9 7 ; ' 8 ? 98 : =8 ; 2492H' 8 : 3' 0 92HA=' <43<=' : 3' <3= 5B34' 8 ' =8<9>3 ' D B3<92H')' : 9=' 49= C34932D3' C6' ; ' &@8953' 3GD@=3' 8 ' 8 : 3' 3&&3D8' 8 : ; 8' : 3' : ; 4' C=3<B34' <3 ; <; 89 2=' & <' 8 ; >92H' 8 : 3' &&32=9B3' 2' 8 : 3' ; <8' &' 8 : 3' 3237 6 ' ; 24' 8 : ; 8' : 9=' @8 =8=' : ; 4' C332' ; 88 ; D>34,

' - @<4 ; 2A=' § ; " ,
' 3' : ; 4' 3C ; =89 ; 29A=' 9B9=9 2 ' $M8 : ' 08 : <33' C ; 88=,P' I $24 ' M8 : 08 ? ' C ; 88=,' 3 ; D : P' ; 24' 8 : ' &' 8 : 3' 923' 08 : <33' C ; 88=,P' M##M' , 3B ; 5A=' 9B9=9 2 ' =3B32' %3< 7 ; 2' ; 24' 8 ? ' @8D : ' C ; 88 ; V 59 2=' ,,,

L#M‘ ‘ ‘ ‘- ‘ 0 ‘ W B,‘ L

D B3<34‘ 8:3‘ <38<3;8‘ ;24‘ 8: @H:‘ C;456‘ C3;832‘ :3‘ H 8‘ ;?;6‘ ?98:‘ B3<6‘=7;55 5 ==‘ 2 ‘ 7 <3‘ 8:;2‘ I##‘ >95534‘ ;24‘ ? @2434‘ ;24‘ ;C @8‘ 8:3‘=;73‘2@7C3<‘ &‘ <9= 23<=,‘ :3‘ <32D:‘D;=@;5893=‘ ?3<3‘X2=9H.‘ 294D;28‘2 8‘;7 @2892H‘92‘;55‘8 ‘7 <3‘8:;2‘$##‘ 732,‘ :3‘?: 53‘ D 7C;8‘924334‘8: @H:‘L# ###‘ 732‘ ?3<3‘ 2‘8:3‘&9354‘ ?;=‘B3<6‘ =: <8‘;24‘2 8‘;8‘;55‘D =856,‘ :3‘&;D8‘?;=‘8:;8‘ 5;>3‘:;4‘C332‘ =@< <9=34‘ ;24‘ :;4‘H9B32‘?;6‘;8‘8:3‘&9 7 8‘ @=:‘ ?98: @8‘7;>92H‘ ;‘=3<9 @=‘;883 7 8‘8 ‘43&324‘ :9 7=35&,‘ 9=‘=3249 2H‘;?;6‘8:3‘H@2=‘ ;8‘8:3‘B3<6‘D 7 7 32D3 7 328‘ &‘8:3‘;D89 2‘7;>3=‘98‘=@&&9D9328 56‘D53;<‘ 8:;8‘:3‘494‘2 8‘ : 3‘& <‘@589 7 ;83‘=@DD3==‘;24‘?;=‘;5<3;46‘D 283 7 V 5;892H‘;‘<38<3;8‘ 2‘ 95C; ,‘ 9=‘;<7 6‘9&‘ < 3<56‘:;24534‘D @54‘ :;63‘ 7;43‘;‘7@D:‘ 7 <3‘D<3498;C53‘&9H:8‘92‘&;D8‘98‘?;=‘8;D89D;556‘ C3;832‘<;8:3<‘8:;2‘43&3;834‘C6‘& <D3‘ &‘;<7=,‘ 8‘7;43‘98=‘<38<3;8‘ 92‘B3<6‘&;9<‘ <43<‘;24‘?;=‘99 98;834‘<;8:3<‘8:;2‘D ?34‘C6‘8:3‘ D:3D>‘?:9D:‘,98‘:;4‘<3D39B34,‘ 2H59=:‘363.?9823== =‘B @D:‘& <‘8:3‘ =83;4923==‘;24 H 4‘= 9<98‘=: ?2‘C6‘8:3‘8< =‘

7 7 349;8356‘;&83<‘H9B92H‘ <43<=‘& <‘;‘H323<;5‘<38<3;8‘C3:924‘8:3‘ <9B3<‘ 3<B9 2‘ 5;>3‘:;4‘=328‘49= ;8D:3=‘8 ‘8:3‘8? ‘49B9=9 2=‘ &‘ D3B34‘;24‘ ;<89232H ‘?:9D:‘?3<3‘D B3<92H‘:9=‘&5;2>‘;H;92=8‘;‘ ==9C53‘8@<2 92H‘7 B3 7 328‘&< 7‘8:3‘B;5536‘&‘8:3‘ C< ,‘ :36‘?39*3‘ 8 54‘8 ‘=;B3‘8:3 7=35B3=‘C6‘&;5592H‘C;D>‘;8‘ 2D3‘8 ‘ 95C; ‘;24‘X 9292H‘ 8:3‘7;92‘;<7 6‘92‘98=‘<38<3;8,‘ :3‘ ;<8‘&‘8:3‘ =897 9;2‘49B9=9 2‘?:9D:‘ 5;6‘;8‘ <4@2;‘=@DD33434‘92‘D;<<692H‘C@8‘8:9=‘ <43<,‘ @8‘8:3‘<3V 7;9243<) &‘ D3B34)=‘732‘;24‘8:3‘?: 53‘&‘8: =3‘&‘ ;<89232H ‘ = 73‘M ###‘C;6 238=‘92‘;55 ?3<3‘;8‘/955;< ‘;‘ 928‘:9H:3<@ ‘92‘8:3‘ 7 @28;92=‘ 2‘;‘7@D:‘7 <3‘49&&9D@58‘< ;4‘;24‘D5 =3<‘8 ‘8:3‘ <32D:,‘ :36‘<3D39B34‘ 5;>3A=‘49= ;8D:‘8 ‘5;83‘;24‘ 2‘ @=:92H‘4 ?2‘8:3‘ 2 <8:3<2‘=943‘ &‘8:3‘ ;==‘?:9D:‘8:36‘:;4‘C332‘: 5492H‘8:36‘53;<28‘ ;8‘ 9<;B;553=‘ 256‘832‘ 7953=‘&< 7‘ 95C; ‘8:;8‘8:3‘5;883<‘8 ?2‘?;=‘ 92‘8:3‘:;24=‘ &‘8:3‘ <32D:,‘ 5;>3‘:;4‘3B;D@;834‘98‘ 2)‘8:3‘3;<56‘ 7 <292H‘ &‘ B37C3<‘ ‘;24‘ 3&3CB<3‘:;4‘ DD@ 934‘98‘ 2‘8:3‘=;73‘ 29H:8,‘ <H92H‘:9=‘ @<=@98‘= 73‘?;6‘C36 24‘ 95C; ‘92‘8:3‘: 3‘ &‘ B3<8;>92H‘ 5;>3‘8:3‘ 4@>3‘ @=:34‘;=‘&;<‘N№=‘/;57;D34;K C@8‘ 3B32‘:3<3‘8:3‘%;59D9;2‘;<76‘? @54‘7;>3‘2 ‘=8;24‘C@8‘&355‘C;D>‘ =8955‘&97 8:3<‘?3=8?;<4‘8 ‘ ;B;‘ 3392H‘8:;8‘:3‘D @54‘2 8‘<3;D:‘ :9H‘;4B3<=;<6‘ 3&3CB<3‘53&8‘8:3‘49B9=9 2‘ &‘/955;883‘;8‘/;57;D34;‘ 8 ‘ C=3<B3‘ 5;>3‘;24‘<38@<234‘?98:‘8: =3.‘ &‘ 3C;=89;29‘;24‘ 3B;‘K 8 ‘ 95C; ‘8 ‘&334‘;24‘<3=8‘:9=‘732‘92‘8:3‘8 ?2‘;&83<‘& @<‘4;6=‘ &‘ 7;<D:92H‘92‘8:3‘7 @28;92=‘?98:‘B3<6‘92=@&&9D9328‘=@ 593=,‘ :9=‘ A‘ 3 <8‘ &‘ ;8;92‘ ;<< 55‘92‘ ; 3<=‘ &‘M#"‘92‘8:3‘ 3D <4‘ &&9D3,

M##M] 0 / L#"

?;= ;B3<6 4;2H3< @= =83 & < 5;>3 :;4 C332 @87;2 3@B<34 ,<;8:3<8:;2C3;832 ;24 ?;= =8955&;<8 =8< 2H8 C3D 28;9234C6 ;7 3<3 ###7 32,

\ 932 8:3<3& <3 D3B34 ;24 :9= D 5@7 2 4<3?23;<8 95C; 8:36 53;7 8 8:;8 I ###<32D:8< = C5 D>34 8:39<<;4 8 ?;<4= 5;>3 W B,I],:36 4<3?C;D>;598853@ 8:3 ;==>33 92H B3<6 J@938 ;24 B3<6 & <8@2;8356 &;9534 8 ;88<;D8 8:3 ;8832 89 2 & 3&3CB<3 ?: 8: @H:8 ;8 8:3 7 =8 8:;8 8:3<3?3<3 = 73C;24= & =8<;HH53<=92 8:3 7 @28;92= 2 :9=53&8,

@8 8:39<=98@;89 2 ?;= =8955 7 =8 @2D 7 & <8;C53 & <8:39<<3;<V H@;<4 C3H;2 8 <3 <8 8:;8 <32D:8< = ?3<3 @=:92H @ &< 7 /988 <9;;24 3283<92H 8:3 = @8:3<2 324 &8:3 43&953 92 ?:9D:8:36 ?3<3 C5 D>34,)O92H - =3 :;4 C332 7@D: B3G34 8 :3;< & 3&3CB<3A= 49= C34932D3 8 :9= <43<= ;8 Q 7 R; C@8 ?9=:92H 8 4<;?? :;8 < &98:3D @54&< 7 8:3 B9D8 <6 =328 /9D8 <@ 8:3 @<.H@9; <4@2;< ;4 ?98: <43<= 8 D@8 92 @ 2 8:3 5923 & 5;>3A= <38<3;8, :9=8:3 @>3 & 355@2 &;9534 8 ;DD 7 59=: 2;DD @28 &8:3 <;94986 ?98: ?:9D:8:3 ;29=:;<76 :;4 <389<34, ,@8 <3;D:92H 7@<<9 ;&3?7953= C36 24 <4@2;:3 D;73 @ 2 8:3 &5;2> & D3B34 A= D 5@72?: =3 :3;4?;= C5 D>34 ;8 9<;B;553= 832 7953= &@<8:3<2 <8: C6 8:3 <3=32D3 & 3&3CB<3 ;8 95C; , & 398:3< 7;<=:;5 :;4 <3;59R34 8:3 =98@;89 2 8:3 M ###;29;<4= D;@H:8 92 ;43&953 ?98: @8 5;83<;5 9==@3= 7@=8 :;B3 =9@<3243<34 @8 /9D8 <:;4 256 23 49B9=9 2 ?98:9 7 8:3 8:3<?;= &;<C3:924K ;24 97;H9292H 8:;8:3:;4D:;2D34 @ 2 8:3 ?: 53 & 5;>3A= ;<76 :3D;73 8 ;43;4 =8 ?:953 3&3CB<3 2 8 638 ;?;<3 & /9D8 <A= ; < ;D: 494 2 8 7 B3 ;8 ;55, D3B34 B9=356 >3 8 J@938 ;24 8<934 8 =59 ;D< == /9D8 <A= &< 28 8 ?;<4= <;289;;24 8:3 <9B3< ;5D34 2K 73;2?:953 8:3 23?= &:9= =98@;89 2 <3;D:34 5;>3,

:;8 H323<;5 ?;= 23B3< ?;2892H 92 3<= 2;5 D @<;H3 ;24 :;4 C332 433 56 49=8<3==34 8 :3;< 8:;8 :9= &5;2>92H 438;D:7328 :;4. C332 D@8 &&, 3;59R92H D3B34 A= 4;2H3< :3 <3= 5B34 8 7;>3 ;=@4432 T &&32=9B3 <38@<2 A ;H;92=8 3&3CB<3 ;24 8 3243;B @< 8 D53;<& <;7 7328 8:3< ;4 &< 7 9<;B;553= 8 /;57;D34;C6 B:9D: :9= =@C <492;83 D @54 3=D; 3, 2 8:3 29H:8 & B37C3< L :3 D 2D328<;834 :9= ?: 53 ;<76 ?:9D:;4 2 ?C332 <;9=34 8 $L ### 732 C6 8:3 ;<<9B;5 &8:3 7;92 C 46 & ; 7;2;A= 49B9=9 2 &< 7 ;28;243<, 8 4;?2 2 8:3 &98:3 &355 @ 2 8:3 3237 6 92 :9= &< 28 C6 8:3 8? < ;4= 2 3;D:=943 &8:3 <9B3< ;5D34 2 =32492H

2‘ : 3 ; <92H‘ &‘ / 955 ; 883A=‘ 43= 3<; 83‘ =98@ ; 89 2‘8 : 3‘ @>3‘ &‘ ; 28R9H‘): ; 4‘ <3 ; 59R34‘ 8 : 3‘ D 2=3J@32D3=‘ &‘ : 9=‘ @2X@=89&9 ; C53‘ <38<3 ; 8‘ 8 ‘ 95C ; ‘ ; 24‘ 7 ; <D : 34‘ @ ‘92‘ : 8‘ : ; =83‘ ? 98 : ‘ 8 : 3‘ 49B9=9 2=‘ &‘ 3C ; =89 ; 29‘ ; 24‘ 3B ; 5, ‘ 3‘ ? ; =‘ <3593B34‘8 ‘ &924‘8 : ; 8‘ / 955 ; 883‘ : ; 4‘ 3G8<9D ; 834‘ : 97 =35& ‘ ; 24‘ <3= 5B34‘ 8 ‘ @29= : ‘ 5 ; >3‘ & <‘ : 9=‘ @23G 3D834‘ &&32=9B3‘ 7 B3, ‘ @8‘ : 3‘ ? ; =\@2 ; C53‘ 8 ‘ 4 ‘ : 9=‘ ; 4B3<= ; <6‘ 7 @D : ‘ : ; < 7 S‘ 8 : 3‘ % ; 59D9 ; 2‘ H323<; 5‘ : ; 4‘ 256‘ ; 4B ; 2D34‘ 92‘ <43<‘ 8 ‘ = ; B3‘ D3B34 ‘ ; 24‘ 494‘ 2 8‘ 928324‘ 8 ‘ 32H ; H3‘ 92‘ ; 26‘ =3<9 @=‘ &9H : 892H, ‘ : 32‘ 3&3CB<J‘ 7 B34‘ & <? ; <4‘ : 3‘ & @24‘ 8 : ; 8‘ 8 : 3‘ ; 29 ; <4=‘ ? @54‘ 2 8‘ =8 ; 24, ‘ 5 ; >3‘ : ; 4‘ @= : 34‘ @8‘ 8? ‘ &5 ; 2>92H‘ 49B9=9 2=‘ 8 ‘ 8@29‘ 8 : 3‘ =989 2‘ ; 8‘ %@323=‘ 2‘ 8 ‘ ? : 9D : ‘ / 955 ; 883‘ : ; 4‘ & ; 5532‘ C ; D> ‘ ; 24‘ : ; 4‘ : 9=‘ 7 ; 92‘ C 46‘ 5 ; D34‘ 92‘ &< 28‘ &‘ 98, ‘ @8* ? : 32‘ 93&3CB<3‘ ; 4B ; 2D34 ‘ ,8 : 3‘ ? : 53‘ % ; 59D9 ; 2‘ ; <7 6‘ &355‘ C ; D> ‘ 256‘ &9H : 892H‘ 8 ? ‘ <3 ; 9)H@ ; <4‘ ; D89 2=‘ 2‘ B3 7 C3<‘ ‘ 92‘ ? : 9D : ‘ 8 : 36‘ =@&&3<34‘ = 7 ; 55‘ 5 ==, ‘ 2‘ 8 : 3‘ 23G8‘ 4 ; 6‘ 8 : 3<3‘ ? ; =‘ ; ‘ 7 <3‘ =3<9 @=‘ 32H ; H3 7 328‘ &‘ 8 : 3‘ = ; 7 3‘ = <8‘ ; 8‘ / ; 5 7 ; D34 ; ‘ 8 ‘ ? : 9D59‘ 8 : 3‘ % ; 59D9 ; 2=‘ : ; 4‘ ? 98 : 4<; B2‘ 2‘ 8 : 3‘ <32 @=‘ 29H : 8, ‘ : 3‘ 8< =‘ ? 98 : ‘ ? : 9D : ‘ 5 ; >3‘ D B3<34‘ : 9=‘ <38<3 ; 8‘ ? 3<3‘ : @=8534‘ @8‘ &‘ 8 : 3‘ 8 B2‘ ? 98 : ‘ 8 : 3‘ 5 ==‘ &‘ #‘ >95534‘ ; 24‘ ? 2434‘ ; 24‘ N##‘ 7 9==92H‘ O‘ 2‘ : 9=‘ 49= ; 8D : 3=‘ 8 : 3‘ ; 29 : ‘ H323<; 5‘ 3G 5 ; 92=‘ 8 : ; 8‘ : 3‘ <38<3 ; 834‘ 2 8‘ C3D ; @=3‘ : 3‘ D @54‘ 2 8‘ : ; B3‘ 7 ; 43‘ ; ‘ C3883<‘ <3=9=8 ; 2D3 ‘ C@8‘ C3D ; @=3‘ : 3‘ : ; 4‘ @=34‘ @ ‘ ; 55‘ : 9=‘ < B9=9 2=‘ ; 24‘ ? ; =‘ <3B32834‘ C6‘ 8 : 3‘ C ; 4‘ ?3 ; 8 : 3<‘ ; 24‘ 8 : 3‘ =8 ; 83‘ &‘ 8 : 3‘ < ; 4=‘ &< 7‘ 4<; ? 92H‘ &@<8 : 3<‘ =@ 593=‘ &< 7‘ ; 28 ; 243<‘ ; 24‘ 362 =; ‘ 8 : 3‘ -C? ‘ 23 ; <3=8‘ 928=‘ ; 8‘ ? : 9D : ‘ 8 : 36‘ D @54‘ C3‘ < D@<34, ‘ <‘ 3=83<2‘ 9=D ; 6‘ : ; 4‘ C332‘ 3 ; 832‘ C ; <3‘ C6‘ 8 : 3‘ 5 ; <H3‘ & <D3=‘ 8 : ; 8‘ : ; 4‘ C332‘ D< ==92H‘ ; 24‘ <3D< ==92H‘ 98‘ 4@<92H‘ 8 : 3‘ 5 ; =8‘ 8? ‘ 7 28 : =‘ ; 24‘ ? ; =‘ ; C= 5@8356‘ 92D ; ; C53‘ &‘ &33492H‘ 8 : 3‘ ; <7 6‘ & <‘ ; ‘ =92H53‘ 4 ; 6, ‘ : 3‘ 7 32‘ 8 ‘ ?3<3‘ 92‘ ; ‘ ? <38D : 34‘ D 24989 2‘ 2 8‘ 256‘ &< 7‘ : @2H3<‘ C@8‘ &9A 7* C ; 4‘ 3J@9 7 328K : ; <456‘ ; 26‘ &‘ 8 : 37) : ; 4‘ <3D39B34‘ H<3 ; 8.D ; 8=‘ 8 : 39<‘ =: 3=‘ ?3<3‘ ? <2‘ @8‘ ; 24‘ =9D>23==‘ ? ; =‘ B3<6‘ <3B ; 5328, ‘ 2‘ ; <3D9 ; C53‘ 2@7 C3<‘ &‘ 8 : 3‘ <; ?‘ % ; 59D9 ; 2‘ ; 24‘ =8@<9 ; 2‘ 53B93=‘ 43=3<834‘ 4@<92H‘ 8 : 3‘ 7 9=3< ; C53‘ <38<3 ; 8‘ &< 7‘ %@323=‘ ; 24‘ / ; 5 7 ; D34 ; ‘ 8 ‘ = 92 =; ‘ 43‘ 5 =‘ 283< =‘ 8 : 3‘ 23G8‘ 928‘ : ‘ 8 : 3‘ 95C ; . 362 =; ‘ < ; 4‘ ; 8‘ ? : 9D : ‘ 5 ; >3‘ =8 4‘ ; 8‘ C ; 6, ‘ \ 5932‘ : 3‘ <3 ; D : 34‘ 8 : ; 8‘ 5 ; D3‘ : 3‘ ? ; =‘ = : <8‘ &‘ = 73‘ N ###‘ 732‘ 53==

* : 9=‘ 32H ; H3 7 328‘ @9623289 234‘ C6‘ ; 93<‘ : 93<=‘ ; 24‘ 7 =8‘ 8 : 3< : 9=V 8 <9 ; 2=‘ ? 955‘ C3‘ & @24‘ 92‘ 438 ; 95‘ 92‘ ; << 55A=‘ 49= ; 8D : ‘ ; 24‘ <83D : 35999, ‘ $ I $ LP,
* 24334‘ 8 : 36‘ ? 3<3‘ 256‘ = ; B34‘ &< 7‘ =8 ; <B ; 89 2‘ C6‘ <3D39B92H‘ ; 8‘ = 92 =; ‘ $ # 7 @53=‘ 5 ; 432‘ ? 98 : ‘ C9=D@98 ‘ &< 7‘ 2H59= : ‘ = : 9 =‘ ; 8‘ ; 28 ; 243<‘ ? : 9D : ‘ %323<; 5‘ 398 : ‘ : ; 4‘ @= : 34‘ ; D< ==‘ 8 : 3‘ 7 @28 ; 92=, ‘ 5 ; >3‘ 92‘ ; ‘ 53883<‘ &‘ B), ‘ ‘ ‘ 8 ‘ 398 : ‘ 0 3D <4‘ &&9D3P‘ ; D>2 ?534H3=‘ 8 : ; 8‘ 8 : 9=‘ >3 8‘ : 9=‘ 732‘ ; 59B3,

G. - 0 B, #

&< 7 5 ==3= 92 C ; 8853 8 : ; 2 &< 7 ? : 53=; 53 =8<; HH592H, <3 B3< : 3 ? ;= & < 8 : 3 7 7 328 43 <9B34 & 8 : 3 ; 94 & 8 : 3 H<3 ; 83< ; <8 & 23. & : 9= 49B9=9 2=, : 9=)? ;= 8 : 3 LH8: % ; 59D9 ; 2 49B9=9 2 8 : ; 8 & %323<; 5 ; <C ; X ; 5K 98 : ; 4 & < 7 34 8 : 3 3G8<3 7 3 53&8 & 8 : 3 ;9* 7 6 ; 24 : ; 4 5 ; 92 23 ; <3=8 8 8 : 3 =3 ; 4@<92H 8 : 3 &9H : 892H ; C @8 %@323= ; 24 / ; 5 7 ; D34 ; , @8 && &9. 7 8 : 3 7 ; 92 C 46 ; 5; <H3 <89 2 & 98 : ; 4 38<3 ; 834 C6 8 : 3 D ; =8.< ; 4 8 ? ; <4= ; 28; 243< ; 24 256 ; &<; D89 2 & 98 : ; 4 <3X 9234 8 : 3 D 7 7 ; 243<.92.D : 93&*, : 3 8 8 ; 5 & 5; >3A= & <D3= ? @54 : ; B3 C332 23 ; <56 L# ### 0 9& : 9= ; < 7 6 : ; 4 C332 =89 ; 8 8 : 3 =8<32H8 : ? 98 : ? : 9D : 3 ; D : D < = =8 ; <834 2 8 : 3 D ; 7 ; 9H2, @8 & < 98= 43D9=9B3 C ; 8853 : 3 : ; 4 2 7 <3 8 : ; 2 $I ### 92 : ; 24,

36 24 / ; 5 7 ; D34 ; : 3 : ; 4 C332 @<=@34 2 5 2H3< C6 3&3CB<3 C@8 C6 / 9D8 <, : 3 5 ; 883< = 9 7 456 <3C@>34 C6 8 : 3 7 3< & < : 9= 92 ; D89B986 2 B3 7 C3< : ; 4 ; 4B ; 2D34 ; H ; 92 &< 7 <4 7 9 ; : ; 4 9D>34 @ 8 : 3 492=9 2 & / 955 ; 883 ? : 9D : < 3<56 C35 2H34 8 : 9= D < = ; 24$: ; 4 8 : 32 8 ; >32 8 : 3 53 ; 4 92 <3==92H 5 ; >3, 3&3CB<3 <34@D34 8 : 9= <9H92 ; 5 & <D3 8 : 3 I ### 7 32 & 3C ; =V 89 ; 2^ ; 24 3B ; 5 & 55 ? 34 ; =& ; < ; = 8 : 3 324 & 8 : 3 43&953 & 5 3<< 2 ; 24 8 : 32 8@<234 && C6 ; &5 ; 2>92H < ; 4 ? : 9D : <3 ; D : 3= 8 : 3 @ 3< B ; 5536 & 8 : 3 C< ; 8 3492 ; 43 7 ; <, 3 92832434 8 =8<9>3

* H ; 8 : 3< &< 7 ; D 7 ; <9= 2 & 8 : 3 7 @=83<.< 55= & 8 : 3 % ; 59D9 ; 2 ; <7 6 92 D8 C3< ; 24 92 3D3 7 C3< 8 : ; 8 & @< C ; 88 ; 59 2= <3X 9234 5 ; >3 ; 24 =9G 3=D ; 34 8 ? ; <4= ; 28; 243<,

* 3 : ; 4 <9H92 ; 556 0=33 8 : 3 8 ; C53 2 , L# IP

% ; 59D9 ; 2 8< = 0& @< 49B9=9 2= ; 24 8? C<9H ; 43=P , $I I I

: 3 =8@<9 ; 2 9B9=9 2 & D3B34 , , , , NII

; 7 ; 2 ; A= 8< = &< 7 8 : 3 ; 589D 08 : 3 92&; 28<6 256P $"L

; B ; 5<6 ; 24 ; <89553<6 0L## ; 24 ### <3= 3D89B356P , L##

I NL#

< 7 8 : 9= : ; B3 8 C3 434@D834 '

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: 3 D ; B ; 5<6 ; 55 8 : 3 ; <89553<6 =; B3 23 C ; 883<6 ; 24

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8 ? ; <4= 362 =; ; ; ; 1 ; ; ; $ L##

? C ; 88 ; 59 2= & <3H9 7 328 35 36 ? 98 : ;5 ; = 92 ;

; 8 / 955 ; <D ; 6 , ,) ,,,

;8 /955;<D;6 ;24 362 =; ;24 8 9283<D3 8 5;>3=<38<3;8 ;8 23 &\8:3=38? 928=, &:3;<<9B34 8:3<3C3& <3 8:3 %;59D9;2= ?: ? @54 C3 435;634 C6 8:3 23D3==986 &&9H:892H D 2892@;5 <3;<V H@;<4;D89 2= ?98: /9D8 <:3: 34 8:;8 8:3?: 53 &8:3 ;29=:; <76 79H:8 C3=@<< @2434;24 D; 8@<34,

2 8:9=3G 3D8;89 2 :3?;= 49=; 92834 & <7;883<= D;73 8 ;: 3;4 C3& <3 :3 ?;= 23;<32 @H:8 3G3<D9=3 ;26 92&5@32D3 2 8:3 ; <;D:92H C;8853, 2 B37C3< #5;>3 8@<234 8 C;6$:9= <3;<H@;<4 D 7 =34 &8:3 8< =& <7 8:3 ;589D:;4 C332 =7@D: :;<;==34 ;24 438;9234 C6 8:3 92D3==;28 ;88;D>= &/9D8 <A= 53;492H 49B9=9 2 8:;8 98= D 7 7;243<8:3 243 43 ;2 7;2 =328 8 8:3 H323<;5 8 ;=>& <;94, 253== =@ <834 C6 7 <3 8< =:3? @54 C3 =@<< @2434 ;24 D@8 &5, 37 834 C6 8:3 =8< 2H 43&32=9B3 =989 2 92 &< 28 &8:3 9D8@<3=J@3 54 8 /2 & = 92 =;43 5 = 283< =5;>3 49<3D834 8:3 <3;<H@;<4 8 8;>3 =8 8:3<3 ;24 C< @H:8,@ 8:3?: 53 &8:3 <3=8 &:9= ;<76 928 5923 ?98: 8:37,) 8 8:9= 928 8:3 :9H&D.< ;4 ;5 2H 8:3 <9B3<A <@3C; ;&83< ;==92H 8:< @H:;=7;55 5;92 08:3 ;7 43 34<;5. B;P <3;D:3= ;43&953 ;57 =8 C5 D>34 C6 8:3 598853 8 B2 &= 92 =; & <=833 :955= 43=D32492H &< 7 3;D: &5;2> 2;<< ?8:3 C<3;48: &8:3 ;==;H3 8 :;5& ; 7953, 3<3 5;>3 DD@ 934 ;=37 9D9<D@5;< =989 2 &D 2=943<;C53 =8<32H8:, :3 8< =& ;2 7;2 8 > =8 ;8 98= @8:3<2 324 2 ;:9 ;C B3 8:3 :9H:.< ;4 ;24 D5 =3 8 8:3 <9B3<A= 34H3, :3 5923 ?;= < 5 2H34 8 8:3 2 <8: &8:37) ;D< ==8:3 2;<< ?= ;D3 &53B35 H< @24 C6 8:3 /;2H@;<4 <9H;43 0 3249R;C35P ;24 8:3 I<4 9B9=9 2 0 9J@357 3P, :3<3 8:3 H< @24 C3H92= 8 <9=3 ;H;92 5;6 8:3 =8 9B9=9 2 0 9H@3< ;P ;24 2 8:3 3G8<37 3 53&8 &;< 8 8:3 2 <8: 8:3 =8@<9;2= & D3B34 DD@ 934 ;5 &86 <94H3 D;5534 ;= 32@DD;=, 3<3 8:36 ?3<3 = =8< 2H56 5;D34 8:;8 98 =337 34 @259>356 8:;8 8:36 D 944 398:3< C3 8@<234 < 49=5 4H34 C6 ;& 28;5 ;88;D>, :3 <3=8 &8:3 ;<76 & <7 34 ; =3D 24 5923 8:3 3=3<B3 <9H;43 0 ;:6P ?;= 92 8:3 <3;<* &8:3 D328<3 92 8:3 =@C@<C &= 92 =;, :Y $24 9B9=9 2 0 ;<89232H P ;24,8:3 =7;55 <37;92= &8:3 L8: 9B9=9 2 5;6 C3:924 ;2 7;2 23;<8:3 <993C; 8 =@ <8 8:3 <9H:8 ?92H ;5 2H 8:3 5923 &8:3 :9H:.< ;4, :3 ?: 53 ;7 @2834 8 = 738:92H C38?332 $$ ###; 24 $I ### 732 C@8 8:3<3 ?3<3 256 =9G H@2= ?98: 8:3 ;<76 8:3 =;73 59H:8 C;883<6 ?:9D: :;4 & @H:8 ;8 Q 7 R;, :36 ?3<3 =834 2,8:3 <9H:8.D328<3 ?98: 3249R;C35A= C<9H;43 92 ;: =989 2 &< 7 ?:9D: 8:36 D @54 =?33 8:3 53B35 H< @24 92 &< 28 & = 92 =;,

L L‘ ‘ ‘ ‘- ‘ 0 ‘ W B,‘

5;>3‘ ;5= ‘ D;5534‘ @ ‘ 8 ‘ :9=‘ ;94‘ 8:3‘ 23‘ @85692H‘ & <D3‘ 8: ;8‘ ?;=‘ ?98:92‘ <3;D: ‘ ;‘ C<9H;43‘ @243<‘ %323<;5‘ ;5;= 92;‘ ? :9D:‘ 5;6‘ ;8‘ /955;<D;6 ‘ H@;<492H‘ 8:3‘ 43 8‘ ?:9D:‘ : ;4‘ C332‘ 8:3<3‘ 3=8;C59=:34,‘ @8‘ 8:3=3‘ $ ##‘ 732‘ ;<94‘ 8:3‘ =9G‘ H@2=‘ ?:9D:‘ 8:36‘ : ;4‘ ?98:‘ 8:37‘ ?3<3‘ <3B32834‘ ;=‘ ?3‘ =: ;55‘ =33‘ &< 7‘ <3;D:92H‘ 8:3‘ &9354

:3‘ =989 2‘ &‘ = 92 =;‘ ?;=‘ 7 =8‘ 43&32=9C53K‘ 98=‘ < X3D892H‘ ?92H=‘ ?3<3‘ 3;D:‘ =8< 2H‘ ;24‘ 98=‘ D328<3‘ 4<; B2‘ &;<‘ C;D>‘ D @54‘ 2 8‘ <@432856‘ C3‘ ;88;D>34‘ ;=‘ 5 2H‘ ;=‘ 8:3‘ &5;2>92H‘ :39H:8=‘ ?3<3‘ 92‘ 8: ‘ :;24=‘ &‘ 8:3‘ ;29;<4=,‘ @8‘ 8:3‘ @<=@92H‘ <32D:‘ ?3<3‘ @243<‘ 8:3‘ 97S <3==9 2‘ 8:;8‘ 8:3‘ %;59D9;2‘ ;<76‘ ?;=‘ = ‘ 8: < @H:56‘ 437 <;5V 9R34‘ ;24‘ ? <2‘ @8‘ C6‘ :@2H3<‘ ;24‘ D 54‘ 8:;8‘ 98‘ ? @54‘ 2 8‘ =8;24,‘ /9D8 <‘ :;4‘ ?98:‘ :97‘ 8:3‘ 92&;28<6‘ &‘ :9=‘ ?2‘ D < =‘ = 73‘ $ ###‘ =8< 2HK‘ /955;883A=‘ 49B9=9 2‘ ? :9D:‘ 534‘ 8:3‘ @<=@98‘ 4;=:34‘ ;8‘ 8:3‘ 3237 6‘ ;=‘ = 2‘ ;=‘ 98‘ D;73‘ @ 2‘ 8:3‘ &9354,‘ 9G‘ C;88;59 2=‘ 4<3?‘ @ ‘ =983‘ 8:3‘ ;29=:‘ D328<3‘ 8 ‘ D 28;92‘ ;26‘ =;556‘ 8:;8‘ 98‘ 79H:8‘ 7;>3‘ ?:953‘ 8:3‘ 8:3<‘ =9G‘ =?3<B34‘ 8 ‘ 8:3‘ 53&8‘ ;24‘ 7;43‘ ;‘ 43= 3<;83‘ ;88;D>‘ 2‘ 8:3‘ 49B9=9 2‘ &< 7‘ 8:3‘ ;589D‘ ?:9D:‘ :354‘ 8:3‘ :39H:8=‘ 97 7349;8356‘ ;C B3‘ 8:3‘ C;2>=‘ &‘ 8:3‘ <@3C;‘ ;2‘ 7;2A=‘ 8< =‘ 8:3‘ 9D>‘ &‘ 8:3‘ ;29=:‘ ;<76‘ 7;43‘ ;‘ &923‘ 43&32D3‘ ;24‘ ;&83<‘ 8? ‘ :@<=‘ &‘ :;<4‘ &9H:892H‘ <38;9234‘ 8:39<‘ =989 2,

8‘ 8:9=‘ 7 7328 98‘ ?;=‘ ;C @8‘ 8:<33‘ AD5 D>‘ 92‘ 8:3‘ =: 9.8‘ ?9283<‘ ;&83<2 2 /9D8 <‘ :97=35&‘ D;73‘ 2‘ 8:3)‘ =D323‘ C<9292H‘ ?98:‘ :9) ‘ :9=‘ 8:3<‘ 8? ‘ 49B9=9 2=‘ 8:3‘ 8?3286.8? ‘ C;88;59 2=‘ &‘ @&&92‘ ;24‘ ; 9==3,‘ :3‘ ;<=:;5‘ ?;=‘;2G9 @=‘ 8 ‘ B9249D;83‘ :97=35&‘ &< 7‘ 8:3‘ D:;<H3‘ &‘ =5;D>23==‘ ?:9D:‘ :9=‘ 7;=83<‘ :;4‘ 7;43‘ ;H;92=8‘ :97‘ & <)‘ :9=‘ D 24@D8‘ 2‘ B37C3<‘ ‘ ;24‘ @=:34‘ :9=‘ 732‘ :;=8956‘ 8 ‘ 8:3‘ &< 28,‘ 923‘ &<3=:‘ C;88;59 2= ;‘ C<9H;43‘ &‘ @&&92A=‘ ;24‘ ;‘ <3H97328‘ &‘ ; 9==3A=‘ 49B9=9 2 ;88;D>34‘ ;H;92‘ 8:3‘ :39H:8=‘ &< 7‘ ?:9D:‘ /95.‘ 5;883‘ :;4‘ C332‘ <3 @5=34‘ `‘; :3<3‘ & 55 ?34‘ ;‘ B3<6‘ &93<D3‘ &9H:8‘ ;24‘ 5;>3‘ 256‘ =@DD33434‘ 92‘ :5492H‘ :9=‘ H< @24‘ C6‘ C<92H92H‘ @ ‘ 8 ‘ 8:3‘ ;94‘ &‘ 8:3‘ <3H97328=‘ &< 7‘ 8:3‘ ;589D‘ 8:3‘ ?: 53‘ &‘ :9=‘ I<4‘ 9B9=9 2‘ ;24‘ ;<8‘ &‘ :9=‘ $24,‘ 8‘ 4@=>‘ 8:3‘ :39H:8=‘ ?3<3‘ =8955‘ 92‘ ;29=:‘ :;24=‘ ;24‘ /9D8 <A=‘ D < =‘ ?;=‘ C59H34‘ 8 ‘ 4<;?‘ C;D>‘ 928 ‘ 8:3‘ ? 4=‘ ;8‘ 8:3‘ & 8‘ &‘ 8:3‘ =989 2,

:9=‘ 32H;H37328‘ ?;=‘ 7 =8‘ D<3498;C53‘ 8 ‘ 5;>3A=‘ ;<76K‘ 8:3‘ 593

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* ;5;= 92;‘ :;4‘ 8?UC;88;59 2=‘ &‘ 35‘ 36‘ ;24‘ 8:3‘ 38;2R =‘ ;24‘ 283<<36‘ 795989;‘ 0- @<2;5‘ &‘ 5;>3A=‘ 3<;89 2=‘ 92‘ 8:3‘ J * ‘# /@ "

* @8: 4A=‘ C<9H;43‘ &‘ /955;883A=‘ 49B9=9 2‘ 8:3‘ "L8:‘ ;24‘ " 8:‘ &‘ 8:3‘ 923,

‘) :3‘ "8:‘ 3H3<‘ ;24‘ $L8:‘ &‘ 8:3‘ 923‘ &< 7‘ @&5 2A=‘ 49B9=9 2‘ ;24‘ 8:3‘ NL8:‘ &< 7‘ 8:;8‘ &‘ ; 9==3‘ 3;D:‘ 8:<33‘ C;88;59 2=‘ =8< 2H,

&' 8 : 3' H< @24' ? ;=' 92' 8 : 39<' &; B @<' C@8' D 2=943<92H' 8 : 39<' &; 89 3' ; 24' =3 7 9.=8 ; <B ; 89 2' 8 : 36' 494' B3<6' ?)355 92' <3 @5=92H' 3J@ ; 5' 2@ 7 C3<=' &' 8 : 3' C3=8' <32D : ' 8< =,' : 36' ?3<3' ; 9434' C6' 8 : 3' <3D>53==' 7 ; 223<' 92' ? : 9D : ' / 955 ; 883' ; 24' / 9D8 <' ; 88 ; D>34$ 98' ? ;=' 2 8' D 2.<' = 2 ; 28' ?98 : ' 8<@3' 7 9598 ; <6' <92D9 53=' 8 : ; 8' 8 : 3' B ; 2' = : @54' D 7 7 98' 98=35&' 8 ' ;' 43= 3<; 83' &9H : 8' C3& <3' 8 : 3' 7 ; 92' C 46' D ; 7 3' @ ' <' 8 : ; 8' ; ' =8< 2H' =989 2' = : @54' C3' ; == ; 9534' ?98 : @8' 8 : 3' 53 ; =8' ; 883 7 8' ; 8' ;' <359 7 92 ; <6' <3D 22 ; 9== ; 2D3,

3G8' 4 ; 6' 8 : 3' ;<= : ; 5' 8 ; @H : 8' D ; @89 2' C6' : 9=' <3 @5=3 ' <3=@ 7 34' 8 : 3' ; D89 2' 92' ; ' 7 <3' =D9328 9&9D' &; = : 9 2,' 3' D ; 7 3' 8 ' 8 : 3' D 2D5@=9 2' 8 : ; 8' 5 ; >3' ? @54' : ; B3' C332' 924@D34' C6' 8 : 3' C ; 8853' &' 8 : 3' <3B9 @=' 4 ; 6 ' 8 ' =8<32H8 : 32' : 9=' <9H : 8 ' ; 24' 92' 8 : 9=' : 3' ? ;=' 3<&3D856' D 9 3D8,' : 3' ; 29 ; <4' : ; 4' = : 9&834' ; 55' : 9=' <3=3<B3=' 8 ? ; <4=' 8 : 3' : 9H : .< ; 4' ; 24' 8 : 3' C ; 2>=' &' 8 : 3' <@3C ; ' 3G 3D892H' 8 ' C3' ; 88 ; D>34' 2' 8 : 3' =; 7 3' H< @24' ; =' 2' 8 : 3' <3B9 @=' 4 ; 6,' @8' / 9D8 <' 7 ; >92H' 2 ' 7 <3' 8 : ; 2' ; ' 437 2=8<; 89 2' 2' 8 : 9=' 928 ' =328' 8 : 3' H<3 ; 83<' ; <8' &' ; 9==3A=' 49B9=9 2' 8 ' ; 88 ; D>' 8 : 3' 3G8<3 7 3' 53&8' &' 5 ; >3A=' 5923 8:3 =8@<9 ; 2' 8< =' ? : ' : 354' 8 : 3' : 9H : ' <94H3' 8 ' 8 : 3' 2 <8 : ' &' = 92 = ; ' 3<3' 8 : 3' =989 2' ? ; =' B3<6',=8< 2H ' C@8' 8 : 3' 8< =' ?3<3' 2 8' 3J@ ; 5' 92' J@ ; 5986' 8 ' 8 : 3' B383< ; 2' C ; 88 ; 59 2=' &< 7 ' 8 : 3' ; 589D' \ : 32' 8 : 3' <32D : ' <3==34' @ ' 8 : 3' : 955' D B3<34' C6' ; ' 8 : 9D>' D5 @4' &' =>9< 7 9= : 3<=' 8 : 3' =8@<9 ; 2=' &355' 928 ' 49= <43<,' : 39<' H323< ; 5 ' D3B34 ' ; 24' : 9=' C<9H ; 493<=' U@9< =' ; 24' / ; 543=' ?3<3' ; 55' =8<@D>' 4 2' ? : 953' 8<692H' 8 ' 53 ; 4' & <? ; <4' 8 : 39<' ? ; B3<92H' 8< =,' 92 ; 556' 8 : 3' ? : 53' 49B9=9 2' H ; B3' .? ; 6' ; 24' &534' 4 ?2' 8 : 3' C ; D>' &' 8 : 3' : 9 ' 8 ? ; <4=' = 92 = ; ' : 39<' < @8' 53&8' 8 : 3' 3237 6' 92' ==3==9 2' &' 8 : 3' : 9H : ' H< @24 ' ? : 9D : ' D 7 538356' D 7 7 ; 2434' 8 : 3' ; 29=' D328<3 ' ; 24' %323< ; 5' ; 9= 2 ' ? : ' : ; 4' 534' 8 : 3' ; 88 ; D> ' &@556' @=34' : 9=' ; 4B ; 28 ; H3,' 3' &355' @ 2' 8 : 3' % ; 59D9 ; 2' =8' 9B9=9 2' &< 7 ' 8 : 3' &5 ; 2> ' ? : 953' ; 8' 8 : 3' =; 7 3' 7 7328' / 9D8 <' <43<34' : 9=' 3289<3' 5923' 8 ' ; 4B ; 2D3 ' ; 24' ; == ; 9534' 8 : 3' ? : 53' &' 5 ; >3A=' &< 28,' @D : ' 2' ; == ; @58' D @54' 2 8' &; 95 ' ; 24' 8 : 3' ; 29 ; <4=' H ; B3' ? ; 6' 92' ; 55' 49<3D89 2=' ; 24' 3=D ; 34' C6' & <492H' 8 : 3' <@3C ; ' ; 24' &5692H' B3<' 8 : 3' : 955=943=' 8 ? ; <4=' 362 =; ,' 5936' : ; 4' 8 ' ; C ; 24 2' 8 : 39<' =9G' H@2=' ; 24' 8 : 3' ? : 53' &' 8 : 39<' C ; HH ; H3 ' ? : 9D : ' 5 ; 6' ; <>34' C3 : 924' = 92 = ; ' : 3' 5 ==3=' 92' >95534' ; 24' ? @2434' ?3<3' 2 8' B3<6' : 3 ; B6 924334' 7 ; 26' 7 <3' ?3<3' : @<8' 92' 8 : 3' : f<4' &9H : 892H' &' B3 7 C3<' #' 8 : ; 2' 92' 8 : 3' < @8' &' B3 7 C3<' K' 98' 9=' < C ; C53' 8 : ; 8

* 8' 9=' &; 9<' 8 ' 8 : 3' =8@<9 ; 2=' 8 ' 7 3289 2' 8 : ; 8' 39H : 8' &' 8 : 39<' 832 ' C ; 88 ; 59 2=' 3<3' <; ?' 53B93=$ 8 : 3<3' ?3<3' ; 7 2H' 8 : 37' 256' 23' <3H@5 ; <' ; 24' 23' 7 95989 ; ' C ; 88 ; 59 2' &' 54' & <7 ; 89 2,

L M ‘ ‘ ‘ W B,‘ "

/ 9D8 <‘ ? : 953‘ 3&3CB<3‘ ? ;=‘ 7 ;<D : 92H‘ 8 ‘ 9283<D3 8‘ : 9 7 ,‘ : 3‘ 256‘

! ‘ 8 : ; 8‘ : ; 4‘ DD@9 34‘ ?9;=‘ 8 : 3‘ 83 7 <; <6‘ D : 3D>‘ 8 ‘ 6955 ; 883A=‘ 49B9=9 2‘ 2‘ B3 7 C3<‘ ‘ ? : 9D :‘ : ; 4‘ C332‘ D ; @=34‘ C6‘ 8 : 3‘ D ; <353==23=‘ &‘ 8 : 3‘ @>3‘ &‘ ; 28R9H‘ ; 24‘ 8 : 3‘ @2 ; DD @28 ; C53‘ 89 7 94986‘ &‘ 8 : 3,‘ @>3‘ &‘ 3 @2 ,‘ @8‘ C6‘ 8 : 3‘ =3B328 :‘ 8 : 39<‘ 7 9=8 ; >3=‘ : ; 4‘ C332‘ <3 ; 9<34‘ ; 24‘ 5 ; >3‘ ? ;=‘ 2D3‘ 7 <3‘ 2‘ 8 : 3‘ <@2‘ ? 98 :‘ C 8 :‘ 7 ; <= : ; 5=‘ 92‘ &@55‘ D<6‘ C3 : 924‘ : 9 7 ,‘ : 3‘ 7 3< <‘ & @24‘ 89 7 3‘ 8 ‘ =324‘ 8 ‘ 3 ; D :‘ &‘ 8 : 3 7‘ ;‘ 53883<‘ &‘ C9883<‘ <3C@>3‘ 0‘ C@8‘ 8 54‘ 8 : 329‘ 8 ‘ @=:‘ 2‘ ; 24‘ D ; 8D :‘ @ ‘ 8 : 3‘ ; <7 6‘ &‘ % ; 59D9 ;‘ ; 8‘ ; 55‘ : ; R ; <4=,‘ 2‘ 2D36 ‘ 2‘ 8 : 3‘ 8 : 3<‘ : ; 24 ‘ : 3‘ 9 7 =34‘ 8 : 3‘ 4@86‘ &‘ >33 92H‘ ; C= 5@8356‘ J@938‘ 92‘ : 9=‘ <3=328‘ =989 2‘ K ‘ : 9=‘ = : ; <3‘ 92‘ 8 : 3‘ H ; 7 3‘ ? @54‘ 256‘ C3H92‘ ? : 32‘ ; =8 ; &9 =‘ ; 24‘ ; 5 ; & G‘ = : @54‘ : ; B3‘ C332‘ 8@<234‘ ; 24‘ 32B35 34‘ C6‘ 8< =‘ 438 ; D : 34‘ &< 7 ‘ 8 : 3‘ D328<; 5 7 ; ==‘ &‘ 8 : 3‘ ; <7 6,

: 3‘ 8 8 ; 5‘ =8 ; 6‘ &‘ 8 : 3‘ 7 3< <‘ 92‘ / 988 <9 ;‘ D B3<34 ‘ ; <8=‘ &‘ & @<‘ 4 ; 6=,‘ 55‘ 8 : 9=‘ 89 7 3‘ : 3‘ ? ; =‘ ; 2G9 @=56‘ 3G 3D892H‘ 43D9=9B3‘ 23 ?=‘ &< 7 ‘ / 9D8 <‘ ; 24‘ 3&3CB<3 ‘ C@8‘ 98‘ : ; 4‘ 2 8‘ 638‘ ; <<9B34‘ ? : 32‘ : 3‘ =38‘ & <8 : ,‘ 3‘ ? ; 9834 ‘ ; 5= ‘ 92‘ B ; 92 ‘ & <‘ 8 : 3‘ 23?=‘ 8 : ; 8‘ 3==93<3=‘ : ; 4‘ DD@ 934‘ @<H =K‘ C@8‘ 8 : ; 8‘ 7 ; <= : ; 5‘ 494‘ 2 8‘ = : ?‘ 8 : 3‘ 43D9=9 2‘ ; 24‘ 4 ; = :‘ ? : 9D :‘ ; 53 2‘ 3G 3D834‘ &< 7 ‘ : 9 7 S‘ &92492H‘ 8 : ; 8‘ 8 : 3<3‘ ? ; =‘ 92&; 28<6‘ 92‘ 8 : 3‘ 5 ; D3 ‘ : 3‘ ? @54‘ 2 8‘ <9=>‘ ; 2‘ ; D89 2‘ ? 98 : @8‘ : 9=‘ 7 ; =83<A=‘ <3=32D3 ‘ ; 24‘ 7 3<356‘ D 2832834‘ : 9 7 =35&‘ ? 98 :‘ @= : 92H‘ C ; D>‘ 8 : 3‘ ; 29= :‘ @8 =8=‘ ; 24‘ 3G832492H‘ 9=‘ D ; B ; 5<6‘ 2‘ C 8 :‘ &5 ; 2>=,‘ 8‘ 9=‘ ==9C53‘ 8 : ; 8‘ : 9=‘ =5 ; D>23==‘ ? ;=‘ 4@3‘ 8 ‘ D : ; H<92‘ 2‘ <3D39B92H‘ 8 : 3‘ 9283559H32D3‘ 8 : ; 8‘ : 3‘ ? ;=‘ ; C @8‘ 8 ‘ C3‘ =@ 3<=3434‘ 92‘ D 7 7 ; 24‘ &‘ 8 : 3‘ □24‘ < =‘ C6‘ @58 ‘ ? : 7 ‘ 8 : 3‘ 7 3< <‘ : ; 4‘ =@ 7 7 234‘ @8‘ &‘ %3<7 ; 26 ‘ ; 24‘ ? : ‘ ? ;=‘ 4@3‘ ; 8‘ 8 : 3‘ &< 28‘ 2‘ 8 : 3‘ 2928 : ,‘ 3==93<3=‘ ? ;=‘ 8 ‘ C3‘ D 7 32= ; 834‘ C6‘ C392H‘ H9B32‘ 8 : 3‘ D 7 7 ; 24‘ &‘ 8 : 3‘ <3=3<B3.‘ D ; B ; : 6‘ &‘ 8 : 3‘ ; <7 6 ‘ &9B3‘ = 532494‘ 49B9=9 2=‘ &‘ 4<; H 2=‘ &‘ ? : 9D :‘ & @<‘ ?3<3‘ ; 5<3 ; 46‘ 2‘ 8 : 3‘ C< ,‘ @8‘ 8 : 9=‘ =8 ‘ B : 9D :‘ ? 9954‘ ; 5? ; 6=‘ >33 ‘ : 9 7 ‘ ; 8‘ 8 : 3‘ 7 3< <A=‘ : 335=‘ ? ;=‘ < C ; C56‘ 53==‘ ; 88<; D89B3‘ 8 ‘ : 9 7 ‘ 8 : ; 2‘ 8 : 3‘ 7 <3‘ 9243 324328‘ =989 2‘ &‘ D : 93&‘ &‘ ;‘ D < =‘ D 7 V 5383‘ 92‘ ; 55‘ ; <7 =,‘ 3‘ T ? ;=‘ < C ; C56‘ 5 8 :‘ 8 ‘)3 ; B3‘ 8 : 3‘ 49B9=9 2=‘ ? 98 :‘ ? : 9D :‘ : 3‘ : ; 4‘ ? 2‘ 8 : 3‘ B9D8 <6‘ &‘ 3492 ;‘ 43‘ 9 ‘ 3D ,‘ 3‘ 8 : 9=‘ ;=‘ 98‘ 7 ; 6 ‘ : 3‘ ? ;=‘ 8 54‘ 8 ‘ ; 88 ; D>‘ @<H =‘ 2‘ 8 : 3‘ =9G8 :‘ ; 24‘ 2‘ 8 : 3‘ ; 2928 : ‘ : 3‘ : ; 4‘ 2 8‘ 638‘ 4 23‘ = ,‘ 2‘ 8 : 3‘ 7 <292H‘ &‘ 8 : ; 8‘ 4 ; 6‘ @58‘ ; <<9B34 ‘ ; 5 23‘ ; 24‘ 2‘ ; ‘ X ; 434‘ =8K : <=3 ‘ : ;) 2H‘ @8<94432‘ 3B32‘ : 9=‘ ; 943=.43.D ; 7 ‘ ? : ‘ 494‘ 2 8‘ X 92‘ : 9 7 ‘ 8955‘ 8 ? 3286.& @<

* : ; 8‘ 8 ‘ / 9D8 <‘ ? 955‘ C3‘ & @24‘ 92‘ , & ‘ * & $ L LL ,

* <‘ 438 ; 95=‘ &‘ 8 : 39<‘ <943‘ ; H ; 92=8‘ 8973 ‘ =33‘ 8 : 3‘ ‘ &‘ 8,‘ : ; 7 ; 2=‘ : 9=‘ =329 <‘ ; 943.43.D ; 7 ‘ 0 ,‘ # P,

R % L "

: @<= 5;83<, 3 ;8 2D3 8 > B3< D 7 7 ;24 &8:3 $24 < = ;24 9. D33434 23G8 4;6 8 D;<<6 @8 8:3 7 3< <A= <43<= C6 ;88;D>92H 8:3 32376,

:3 =@ 3<=3==9 2 &3==93<3= ?;= 2 8 8:3 256 D:;2H3 B:9D: ?;= 7;43 4@<92H 8:3 &3?4;6= ?:953 8:3 7 3< <5;6 ;8 /988 <9;, 3 9.3;<<;2H34 8:3 9283<2;5 <H;29R;89 2 &=3B3<;5 &8:3 D < = ;583<34 8:3 C<9H;492H &8:;8 &2D36 ;24 8@<234 B3< 8 8:X3< D < = 7 58 &8:3 8< = ?:9D: :;4 :98:3<8 =3<B34 @243< 36 53;B92H 8 8:;8 7;9A=:;5598853 7 <3 8:;2 8:3 8? 23?56 ;9A<9A&34 49B9=9 2= &9A <2 %3<7;26 08: =3 &;H<;2H3 ;24 ;<D:;24P,

:3 8< = 43=89234 & <8:3 7;<D: 2 @<H = D @2834 = 73 #,### 732 C@8 256 8:3 $24 < =;24 8:3 D;B;5<6 &95:;@4 ;24 <;2D3=D:9 B3<3 92 8:3 &< 28 5923, :3=3 M### C;6 238= ;24 N ## =;C<3= ?3<3 ;7 56 *=@&&9D9328 & <8:3 8;=>, 3:924 & 55 ?34 & @<8332 C;88;59 2= &8:3 7 3<9;5 %@;<4;24 8:3 D;B;5<6 &8:;8 D < = 8:3 8? 49B9=9 2= &36A= N8: < = 8:3 49B9=9 2 &3== 553= &9< 7 092H - =3 :A= <3=3<B3 ;24 8? ;24 ;5 :;5& 49B9=9 2= &<3=3<B3 D;B;5<6 ;2 32 <7 @= 7;== &8< = &?:9D: 23;<56 $#,### ?3<3 B383<;2 D;B;5<6 &<A 7 %39)7;26 ;& <D3 92B;5@;C53 & <8:3 =?33 92H &8:3 H<3;8 5;92= &54 ;=8953)

:32 ?3 8@<2 8 32@73<;83 8:3 & <D3= =34 8 8:3 7 3< <

* :3 &9H@<3= :3<3 H9B32 ;<3 7;9256 8: =3 9249D;834 C6 ; 53 2 92 :9= 49= ;8D: & B,M3 , &* & $ LL, NP =@ 5373283 4 &< 7 8:3 7 <292H =8;83 &8:3 ;<76 2 D8, #K

$24 < = 0 ;<=:;5 @58PK),

9B9=9 2 @8 2 0 3<53P ; ; ; ,

9B9=9 2 223 8 ; ; ; , S

9B9=9 2 3<53 0/3<493<P ; , ;B;5<6 & ; = ; 953 ,,,

M#M] ‘ 0 ‘ ‘ /

=8<32H8:‘ 92‘ &9. 28‘ &‘ :97‘ :3‘ =: @54‘ :;B3‘ C3359‘ D;@89 @=,‘ &‘ :3‘ ;8837 834‘ ;‘ =8;24‘ :3‘ =: @54‘ ;8‘ 53;=8‘ :;B3‘ 8;>32‘;4B;28;H3‘ &‘8:3‘ ;2D9328‘ & <89&9D;89 2=‘ &‘ @<H ;24‘ 8:3‘ C< >32‘ H9. @24‘ 23;<‘ 8:3‘ D986,‘ @8‘ 78:‘ 8:3‘ 7 =8‘ D:33<&@5‘ 49=<3H;<4‘ &‘D 77 2‘ 79598;<6‘ <3D;@89 2=‘ 8:3‘ @28‘ 7;<D:34‘ @8‘ &‘ 7)H =‘ ;4B;2D34‘ ;‘ &3?‘ 7953=‘;24‘4<3?‘@ ‘ :9=‘ ;<76‘;D< ==‘8:3‘ :9H:.< ;4‘92‘ &< 28‘ &‘8:3‘ B955;H3‘ &‘%;7 2;5, 3‘ ?;=‘92‘;2‘ 32‘ 5;92‘ :9=‘ <9H:8‘ &5;2>‘955‘ D B3<34‘ C6‘8:3‘<9B3<‘ 94;2R 2‘ ?:9D:‘ ?;=‘& <4;C53‘92‘ 7;996‘ 5;D3=‘ :9=‘ 53&8‘ D 7 538356‘ T‘92‘8:3‘ ;9<K‘23;<‘8:3‘ B955;H3‘ &‘ /3559 7;<, 2‘ &<. 28‘ &‘8:3‘5923‘?;=‘;‘5;<H3‘? 4‘?:9D:*‘8:3‘< ;4‘C9=3D8=K‘98‘H;B3‘ 8:3‘ 3237 6‘ 3B396‘&;D95986‘& <‘ 7;=>92H‘ :9=‘ 7 B37328=‘8955‘8:3‘5;=8‘ 7 7328,‘ 35B343<3‘ :;4‘<;2H34‘ :9=‘.8? ‘ =89)37;4@<;2‘ C;883<93=‘ 2‘8:3‘D3289K3K ‘:3‘ :;4‘=9G‘C;88;59 2=‘92‘ :9=‘&99.=8‘592 ‘92D5@492H‘8? ‘ &‘8:3‘ 6;5‘%@;<4= C 8:‘B3<6‘?3;>‘ ?98:‘;‘D;B;5<6‘<3H97328‘ 2‘3;D:‘&5;2>,‘ 9=‘=3D 24‘C23‘?;=‘& <734‘ &‘& @<‘C;88;59 2= 8?‘ &‘8:37‘%;59D9;2K‘8? ‘ 7 <3‘C;88;59 2=‘8:3‘& @<‘%;59D9;2‘‘H@2=‘ ;24‘:9=‘8:9<4‘D;B;:6‘<3H97328‘?3<3‘D 792H‘@ ‘&< 7‘8:3‘<3;<‘;24‘ :;4‘2 8‘638‘8;>32‘8:39<‘ =8‘92‘8:3‘=3D 24‘5923‘?:32‘8:3‘=:<8‘;24 =@4432‘C;8853‘?;=‘& @H:8‘;24‘5 =8‘

F

* ;D:‘ 7@=83<34‘53=‘=‘8:;2‘L##C;6 238=,

‘ ‘=: ?‘: ?‘ =8<;2H3‘9=‘ ; 93<4=‘=8;837328‘09,‘$NL‘8:;8‘8:3‘;<76‘& =8<37;4@<;‘D 2=9=834‘&‘2‘8:3‘C3=8‘8< =‘8:32‘92‘ j‘;24‘8:;8‘98‘?;=‘8:3<3& <3‘49=H<;D3&@5‘8:;8‘8:36‘2‘& @H:8‘,? <=3‘8:;2‘8:3‘:;5&.=8;<B34‘ 3;=;28=‘ &,‘ 5;>3K‘?3‘7;6‘ 3<:; =‘H9B3‘8:3‘59=8‘ &‘ 35B343<3A=‘598853‘& <D3‘8‘98‘D 2V =9=834‘ &

=8‘ 9B9=9 2‘0%323<;5‘43‘ 5 =‘<‘

*L8:‘C;88;59 2‘ &‘8:3‘ ;29=:‘%@;<4=‘ , , , ,

23‘C;88;59 2‘ &‘ < B92D9;5‘%<32;493<=‘ &‘ =8<37;4@<;‘

3H97328‘ &‘ ;X <D;‘08?‘‘C;88=,‘ ; ; ; , ;L N#

*$24‘ 3H97328‘ &‘ ;8;5 29;‘0 23‘C;88,P

23‘D 7 ;26‘‘ &‘ :;< =: 83<=,,,

@58 ,D; 7 3 2 8 : 3 =D323 4@<92H 8 : 3 : @<= &8 : 3 7 <292H ? 98 : 8 : 3 59H : 8.D ; B ; 5<6 49B9=9 2 & ; = ; 553 43 5 634 92 : 9= &< 28, : 399 & 55 ? 34 8 : 3 4<; H 2= & 95 : ; @ ; 24 8 : <33 92&; 28<6 4 : 9=9 2= &8 : 3 $24 < =)@8 2 92 &< 28 8 : 32 3<53 8 : 32 2238 C<92H92H @ 8 : 3 <3 ; <, : 32 : 3 D; 7 3 @ 2 8 : 3 ; 29; <4= ; <<; 634 2 398 : 3 =943 &8 : 3 < ; 4 8 : 3 =@.= : ;5 ? ; = ; C53 ? 98 : ; A=92H53 H5; 2D3 8 <3D H29R3 8 : 3 ?3; >23== &)8 : 39< 2@7 C3<= ; 24 ,8 : 39< =989 2, 3 494 2 8 : 3=98; 83 & <; 7 7 328 ; 24 <; 9456 & <7 34 : 9= 5923 &C ; 8853 @243< D B3< &8 : 3 ? 4 ? : 9D : 5; 6 C38?332 8 : 3 8? ; <7 93=, 95 : ; @4A= 49B9=9 2 &4<; H 2= < 43 = @8 : ? ; <4 ; 24 & <7 34 @ 2 8 : 3 C; 2>= &8 : 3 <5; 2R 2 &; D92H 8 : 3 ; 29= : <9H : 8K ' ; = ; 553A= & @< <3H97 328= &59H : 8 D; B ; 5<6 D 7 =34 8 : 3 <32D : D328<3K 8 : 3 8?35B3 C; 88; 59 2= &@8 2A= 49B9=9 2 43 5 634 2 8 : 3 53&8 ; 24 ; 4B; 2D34 8 : < @H : 8 : 3 ? 4 <3D3434 C6 ; D< ?4 &89<; 95539@A=, : 3<3 ? ; = 2 2334 8 ? ; 98 & < 3<53 ; 24 2238 ? : ?3<3 =8955 = 73 ? ; 6 8 8 : 3 <3; <,

: 3 32H; H3 7 328 3234 C6 ; 49=D : ; <H3 &8 : 3 8? ; 29= : C; 883<93= 49<3D834 ; 8 8 : =3 &@8 2A= 732 ? : ?3<3 ; 4B; 2D92H ; D< == 8 : 3 D 7 ; <; 89B356 32 H< @24 2 3; D : =943 &8 : 3 : 9H : V < ; 4, @8 8 : 36 : ; 4 : ; <456 897 3 8 &9<3 8 : <33 <& @< =; 5B = C3& <3 8 : 3 3237 6 ? ; = @ 2 8 : 37 , : 3 =3B32 <3H97 328= &D; B ; 5<6 ? : 9D : & <7 34 8 : 3 53&8 ; 24 D328<3 &8 : 3 <32D : ; <7 6 : ; 4 4359B3<384 ; = 7 ; = : 92H D : ; <H3 ; 8 8 : 3 92&; 28<6 =34 8 8 : 37 92 8 : 3 5; 92, : 3 <3H97 328 &; 29= : : @==; <= ? : 9D : D B3<34 8 : 39< &5; 2> ? ; = =?3 8 ; ? ; 6 59>3 D : ; && C3& <3 8 : 3 ?924 ; 24 8 : 3 @2& <8@2 ; 83 =8<37 ; 4@<; 2 ; 24 %; 59D9; 2 C; 88; 59 2= : ; 4 2 8 3B32 897 3 8 8 : < ? 8 : 37 =35B3= 928 =J@; <3= C3& <3 8 : 9= 8 <<328 &23; <56 ### : <=37 32 =?3 8 B3< 8 : 37 , : 36 <3D39B34 8 : 3 ; 88; D> 92 5923 ? 98 : ; ? ; B3<92H 955.49<3D834 &9<3 ? : 9D : 494 2 8 =8 8 : 3 3237 6 & <; 7 7 328, 9B3 C; 88; 59 < = ?3<3 <94432 4 ?2 92 8 : 3 8?92>592H &; 2 363 8 : 39< D 5 @<= ?3<3 ; 55 8; >32 ; 24 : ; 5& 8 : 3 732 ?3<3 : 3?2 4 ?2 < 7 ; 43 <9= 23<= : 3 <37 2; 28 &534 92 49= <43< 8 ? ; <4= @<H =, : 32 95 : ; @4A= 4<; H 2= D 2892@34 8 : 3 @<=@98 ? : 953 ; = ; 553A= D : ; ==3@<= =?3<B34 92 ? ; <4= ; 24 &355 @ 2 8 : 3 &5; 2> &8 : 3 =@<B9B92H : ; 5& & 35B343<3A= ; <7 6, 8 8 : 3 =; 73 7 7 328 8 : 3 92&; 28<6 & @8 2 ; 88; D>34 8 : 37 B9H < @=56 &< 7 8 : 3 &< 28,,,, : 3 923B98; C53 <3=@58 ?; = 8 : 3 D 92 5383 < @8 ; 24 49= 3<=9 2 &8 : 3 ? : 53K 256 8 : 3

T = 955 5@D> ? @54 : ; B3 98 & @< &8 : 3=3 &963 C; 88; 59 2= 92 8 : 3 5; 92 ?3<3 <; ?2 53B93= 8 : 3 / 5@2833<= &; 4; X R 08 ? C; 88=,P ; 24 & @6 ; 24 3@; B3283, : 36 : ; 4 2 8 =>955 32 @H : 3B32 8 & <7 =J@; <3,

C;88;59 2 & ;55 2 %@;<4= =@DD33434 92 & <7 92H =J@;<3 ;24 H 92H &&8:3 &9354 92 = 73 <43<, :3 <3=8 C< >3 8:39<<;2>= ;24 @<34 928 @<H = 92 ;=8<3;9X &&99H989B3= =97 95;<8 8:;8 ?:9D: ?;= ;5<3;46 <@=:92H 8:< @H:8:3 =8<338= &< 7 8:3 8:3< ?92H, :3 =9G8332 ;29=:H@2= ?3<3 ;55D; 8@<34 2 8:3= 8 8: =3 &8:3 =3D 24 5923 C3& <3 8:36 :;4 C332 @2597 C3<34 < &9<34 ;=92H53 =:8, 35B343<3 ?: ? ;= .<;=:;24 92D 7 38328 C@8 2 D ?;<4 7;43 8?U 43= 3<;83 ;8837 8= 8 <;556 :9= 8< = 23 ;8 8:3 C<94H3 &8:3 <5;2R 2 8:3 8:3< @8=943 8:3 D986 C@8 :9= 7 32 ? @54 2 8 :;58 & <;7 7 3288 8:39< 256TD 2D3<2 ?;= 8 H38 D53;< &8:3 C;HH;H3. 8<;92 ?:9D: ?;= 5 D>92H 8:3 <;4 92 8:3 8<;2= 28923 =@C@<C, 598853 &@<8:3< 2 8:3 &@H989B3= 7 38 8:3 C35;834 C;88;59 2= &/;532D9 9 ;24 Q;&<; ?:9D: :;4 C332 & @< <&9B3 7 953= &< 7 8:3 &9354 ?:32 8:3 C;8853 ?;= 5 =8, :3 7 7;243<.92.D:93& 8<934 8 & <7 8:37 ;D< == 8:3 <;4 ;24 8 <;556 8:3 C< >32* 8< = @ 2 8:37 K C@8 8:36 D<934 T <3;= 2 A <3832434 8:;8 8:39< D;<8<94H3.C G3= ?3<3 37 86 C< >3 8:39<<;2>= ;24 :3;434 8:3*&59H:8 <3 29H:8 8:36 :;4 <3;D:34 3<7 ;9 8:9<86 7953= 8 8:3 <3;< ?:3<3 8:3 I<4 9B9=9 2 & =8<37;4@<;:;4 X@=8 ;<<9B34, ; 53 2 ?;= < C;C56 @=92H 53== 8:;2 :9= D@=8 7;<6 3G;HH3<;89 2 ?:32 :3 43D5;<34 92 :9= M 8:;8 :3 :;4 ? 2 8:3 D 7C;8 & %;7 2;5 ;8 8:3 D =8 & &9&8332 >95534 ;24 &9&86 ? @2434, 8 9= ;8 ;26 <;83 @259>356 8:;8 :9= 8 8;5 & D;=@;5893= 3GD33434 8:3 &9H@<3 & $##, :3 ;<76 & =8<37;4@<;2 8:3 8:3< :;24 :;4 =@&&3<34 83<<9C56K D 2=943<92H 8:;8 98= ?: 53 <9H:8 ?92H :;4 C332 <94432 4 ?2 C6 D;B;5<6 ;24 8:;8 8:3 @<=@98 :;4 C332 @<H34 ;D< == ;2 32 5;92 & <2923 7953= 98 7;6 ?355 :;B3 5 =8 8:3 $ ##>95534 ;24 ?@2434;24 8:3 "## <9= 23<= = >32 &C6 8:3 7 <3 7 43<;83 <32D:2;<<;8 <= &8:3 &9H:8 8 9= D3<8;92 8:;8 98 53&8 C3:924 8?35B3 &8:3 8?3286.& @<3H97328;5 =8;24;<4= ?:9D: 98 <<934 8 8:3 &9354 ;24 3B3<6 23 &98= H@2= :3 <32D:;<76 D353C<;834 98= 2 8 B3<6 H5 <9 @= B9D8 <6 92 8:3

* 8* 9= &;9< 8 =;6): ?3B3<8:;8 - @<4;2 ;==3<8= 8:;8 8:39<5 == ?;= 256 ;C @8 N###; # # $;M P, :3<3 9=2 ;29=:3=897;83 &;26 ;@8: <986, ; 53 2 92 :9=: D5;9734 I ###)95534 ;24 I ### <9= 23<= 23 &:9= @=@;5 3G;HH3<;89 2=,

* :3<3 ?3<3 256 =9G8332 &9354.H@2= ?98:8:3 ;<76 638 ; 53 2 =;6= 8:;8 :3 8 >8?3286.&9B3 ;, &* & $ L L MP, &8:9= &9H@<3 9= D <<3D8 0?:9D: ?3 7;6 4 @C8 8:3<3 7@=8 :;B3 C332 = 73 H@2= & =989 2 8;>32,92 8:3 D986 & @<H =, @8 &8:3 8?35B3 &5;H= 8:3<3 9= 2 J@3=89 2 8:36 ?3<3 & <?;<434 8 ;<9= 8? 4;6= 5;83< 3, &* & $ L LNIP,

L$L‘ ‘ ‘ ‘ ‘ W B,‘

@=@;5‘&;=:9 2‘C6‘=;D>92H‘ @9AH =‘?98:‘3B3<6‘;88324;28‘D9<D@7=8;2D3=‘ &‘79=D 24@D8,‘ :36‘?3<3‘=‘7@D:‘ @8‘ &‘::24‘8:;8‘8:3‘:@=3‘ &53G8‘8‘8:;8‘92‘?:9D:‘8:3‘ 7 3< <‘:;4‘8;>32‘@‘:9=‘J@;<83<2‘&<‘ 8:3‘29H:8‘?;=‘ 955;H34‘;24‘=38‘ 2‘&9<3‘=‘8:;8‘:3‘:;4‘8‘=:9&8‘ :;=8956‘928‘;2 8:3<‘=8<338

:3‘29H:8‘ &‘8:3‘8328:‘? ‘43B 834‘8‘ 5@243<‘C@8‘ 2‘8:3‘& 5V 5 ?92H‘9:472H‘ 2; ;<83‘<3=@734‘?98: @8‘ 435;6‘8:3,‘3G3D@89 2‘ &‘:9=‘H<3;8‘ 5;2‘;24‘:@<<934‘ @8‘8‘8:3‘= @8:‘8:3‘:3;B6‘7;==3=‘ &‘ D;B;5<6‘?:9D:‘?3<3‘8‘=?33‘8:3‘ 5;92=‘ &‘ 54‘ ;=8953,‘ ;=;553A=‘ 49B9=9 2‘ @=:34‘ 2‘8‘ 3<7;‘&< 7‘?:9D:‘8:3‘=:;883<34‘<372;28=‘ &‘8:3‘;<76‘ &‘ 35B343<3‘:;=8956‘<389<34,‘ 95:;@4A=‘4<;H 2=‘?3<3‘ 49<3D834‘ 2‘ ;532D9;‘ <;2D3=D:9A=‘59H:8‘D;B;5<6‘7 <3‘8‘8:3‘?3=8‘ ;5 2HA‘8:3‘C;2>=‘ &‘8:3‘ <C35‘;24‘8:3‘ 4<;‘, ?:3<3‘=;B3‘;8‘ 3<7;‘?;=‘;‘=92H53‘ ;29=:‘= 5493<‘=332‘C@8‘98‘9=‘=;94‘8:;8‘= 73‘ &‘ 95:;@4A=‘&5692H‘ ;<893=‘‘C8;9234‘B;H@3‘92&<7;89 2‘ &‘8:3‘ ;4B;2D3‘ &‘ 9<-:2‘ <3A=‘ 2H59=:‘;<76‘C36 24‘8:3‘&< 2893<‘ &‘ <8@H;5,‘ 9=‘B;2H@;<4‘?;=‘<3 <834‘8‘C3‘;8‘ <‘;2‘@883<‘ 79=8;>3‘&‘<‘8:3‘3G 34989 2;9)6‘&<D3‘:;4‘2 8‘<3;556‘;==34‘ ;5;V 7;2D;‘ 2‘8:3‘4;6‘?:32‘8:3‘<@7 7*‘?;=‘8<;2=7 98834‘8‘8:3‘ 7 3<<,‘ :3<3‘9=‘2‘=9H2‘92‘:9=‘49= ;8D:3=‘ &‘;26‘=3<9 @=‘ 3G 3D8;89 2‘ &‘;‘ ==9C53‘ <989=:‘49B3<=9 2,

2‘8:3‘=;73‘4;6‘,2‘?:9D:‘8:3‘D;B;:6‘ @<34‘4 ?2‘928‘8:3‘ 5;92=‘ &‘ ;=8953‘8:3‘ 7 3<<‘C3H;2‘;5=‘8‘3G3D@83‘8:3‘H9A3;8‘ &5;2>92H‘7 B373283=‘?:9D:‘?3<3‘8‘D9<D@7B328‘8:3‘;<793=‘ &‘ 5;>3‘ ;24‘ ;=8;2=‘;24‘8‘4<9B3‘8:3‘ 23‘928‘8:3‘ ;6‘ &‘ 9=D;6‘;24‘8:3‘ 8:3<‘;H;92=8‘8:3‘ 6<3233=A‘ 2‘8:3‘;&83<2 2‘ &‘8:3‘353B328:‘ @58‘?98:‘8:3‘8:<33‘49B9=9 2=‘ &‘ @8 2‘ 3<53‘;24‘ 2238‘;24‘ 3C3 3A=‘D;B;5<6‘C<9H;43`‘?;=‘49<3D834‘8‘7;>3‘&<D34‘7;<D:3=‘ @ 2‘ 362 =;‘C6‘8:3‘:9556‘<;4‘8:;8‘;==3=‘C6‘ <C35‘;24‘553<=‘:

A‘H1 # ‘&‘8,‘ :;7;2=‘0 @58A=‘=329 <‘;943.43.D;7 P‘S ,‘ #,‘ 7 ;<3‘ 8:3‘H ‘&‘ ;2892‘43=‘ 4 ;<4=‘0 ,‘ M"P‘& <‘8:3‘=D323=‘ &‘: << <‘92‘ ;24‘ ;C @8‘8:3‘8 ?2,‘ :3‘=D;883<34‘D < =3=‘ &‘ ;29;<4=‘D@8‘4 ?2‘ ‘8:36‘&534‘ D B3<34‘8:3‘< ;4‘& <‘:;5&.; 4;6A=‘7;<D:‘C36 24‘ @<H =,)

, &‘ &$ L L"N‘D 28;92=‘8:9=‘&;5=3‘<3 <8,

A‘ :9=‘C<9H;43‘494‘2 8‘ < 3<56‘C35 2H‘8‘8:3‘$24‘ < =‘C@8‘8‘ <;2D3=D:9A=‘ 49B9=9 2‘ &‘<3=3<B3‘D;B;5<6,‘ ;=;553‘?98:‘8:3‘ < 3<‘D;B;5<6‘49B9=9 2‘ &‘8:3‘ $24‘ < =‘?;=‘C392H‘37 5 634‘35=3?:3<3,

B‘ :9=‘?;=‘4 23‘2‘ B37C3<‘ ‘;24‘2 8‘0;=‘ <83D:3‘=;6=P‘ 2‘8:3‘8:9<83328:,‘ :3‘ < &‘ 7;6‘C3‘& @24‘92‘8:3‘ 98923<;<6‘H9B32‘C6‘ 8,‘ :;7;2=‘92‘ :9=‘ # ‘0 ,‘ #P,‘ 2‘8:3‘8:9<83328:‘8:3‘ ;<=:;5‘?;=‘;5<3;46‘;8‘ ;24@35;=‘ D5 =3‘8‘ 362 =;,

L$N ‘ ‘ , ‘ ‘ W B,‘

8‘ ? ;=‘ 92‘ 8 : 3=3‘ 4 ; 6=‘ ; 5= ‘ 8 : ; 8‘ ; 53 2‘ 49D8 ; 834‘ 8 : 3,‘ 5 ; =8‘ <3 56‘ =328‘ 8 ‘ ; 2292H‘ ? 98 :‘ <3H ; <4‘ 8 ‘ 8 : 3‘ 3 ; D3‘ 23H 89 ; 89 2=‘ 8 : ; 8‘ : ; 4‘ C332‘ =8 ; <834‘ ; 8‘ <&@<8,‘ 8‘ 8 : 3‘ =; 73‘ 7 7 328‘ : 3‘ ? ;=‘ D 7 V 7 32892H‘ 2‘ 8 : 3‘ + ‘ , ! ‘ <H ; 29R92H‘ 8 : 3‘ H< ; 24.4@D : 6‘ &‘ 3<H ‘ <43<92H‘ 8 : 3‘ ; ==3 7 C56‘ &‘ 3 ; 598 ; 2‘ 8< =‘ & <‘ ;‘ 43=D328‘ 2‘ 9D956 ‘ <3H@5 ; 892H‘ 8 : 3‘ @29B3<=986‘ &‘ 9=; ‘ ; 24‘ 4<; ?92H‘ @ ‘ 2 83=‘ [2‘ 8 : 3‘ 9283<2 ; 5‘ H B3<2 7 328‘ &‘ ; 92‘ & <‘ 8 : 3‘ C323&98‘ &‘ : 9=‘ C< 8 : 3<‘ - =3 :‘ @8‘ 8 : 3‘ 7 =8‘ D : ; < ; D83<9=89D‘ &‘ ; ‘ : 9=‘ ; D89 2=‘ ? ;=‘ ;‘ : @H3‘ 93D3‘ &‘ T D 7 7 ; 2433<92H‘ &‘ <9B ; 83‘ < 3<86,‘ @<H =‘ ? ;=‘ 8 : 3‘ H<3 ; 8‘ 49=8<9C@892H‘ D328<3‘ & <‘ 8 : 3‘ ? 5.8< ; 43‘ &‘ ; 92K ‘ : 3<3‘ 5 ; 6‘ 8 : 3‘ ? ; <3 : @=3=‘ &‘ 8 : 3‘ &5 D>). 7 ; =83<=‘ ? : ‘ ? 234‘ 8 : 3‘ H<3 ; 8‘ : 3<4=‘ &‘ 7 3<92 ‘ = : 33 ‘ 8 : ; 8‘ &334‘ @ 2‘ 8 : 3‘ D328< ; 5‘ 5 ; 83 ; @G‘ &‘ ; =8953,‘ : 3<3‘ ? 3<3‘ $# ###‘ C ; 53=‘ &‘ ? 5‘ 92‘ 8 : 3‘ D986 ‘ 2 8‘ H B3<2 7 328‘ =8 <3=‘ C@8‘ @<356‘ <9B ; 83‘ ; DD@ 7 @5 ; 89 2=,‘ : 3‘ 7 3< <‘ =39R34‘ 98‘ ; 55‘ ; 24‘ = 54‘ 98‘ 92‘ <; 2D3 ‘ H5 ; 892H‘ B3<‘ 8 : 3‘ &; D8‘ 8 : ; 8‘ 98‘ ? ;=‘ ? <8 :‘ 7 <3‘ 8 : ; 2‘ ### ###‘ &< ; 2D=‘ ,

398 : 3<‘ &‘ 8 : 3‘ &5 ; 2>92H‘ 3G 34989 2=‘ ? : 9D :‘ 8 : 3‘ 7 3< <‘ =328‘ @8‘ J@983‘ &995&95534‘ : 9=‘ 3G 3D8 ; 89 2=‘ C@8‘ 8 : ; 8‘ &‘ @58‘ ? ;=‘ ? <>34‘ &; <‘ 7 <3‘ =@DD3==&@556‘ 8 : ; 2‘ 8 : ; 8‘ &‘ 36,‘ : 3‘ @>3‘ &‘ ; 5 7 ; 89 ; A=‘ D < =‘ 7 ; <D : 34‘ =9G86‘ 7 953=‘ B3<‘ C ; 4‘ ; 29= :‘ < ; 4=‘ 92‘ 8 : <33‘ 4 ; 6= ;‘ H<3 ; 8‘ &3 ; 8‘ & <‘ 92&; 28<6 ; 24‘ <3 ; D : 34‘ ; 24@35 ; =‘ D5 =3‘ 8 ‘ 362 =; ‘ 2‘ B3 7 C3<‘ I ,‘ &‘ 5 ; >3‘ : ; 4‘ 2 8‘ ; 5<3 ; 46‘ C332‘ &5692H‘ & <‘ : 9=‘ 59&3‘ C3& <3‘ / 9D8 <‘ : 3‘ 7 @=8‘ : ; B3‘ C332‘ 9283<D3 834,‘ @8‘ : 3‘ : ; 4‘ 7 ; 43‘ =@D :‘ : 3 ; 45 2H‘ = 334‘ 8 : ; 8‘ : 3‘ : ; 4‘ ; 5<3 ; 46‘ <3 ; D : 34‘ 362 =; ‘ 256‘ 8? 3286.& @<‘ : @<=‘ ; &83<‘ : 9=‘ 43&3 ; 8‘ ; 8‘ = 92 =; ,‘ 3‘): ; 4‘ : 34‘ 8 ‘ <3&98‘ ; 24‘ <3 <H ; 29R3‘ : 9=‘ ; < 7 6‘ C6‘ 7 3 ; 2=‘ &‘ 8 : 3‘ B ; =8‘ ; DD@ 7 @5 ; 89 2‘ &‘ =8 <3=‘ D 553D834‘ 8 : 3<3 ‘ & <‘ : 3‘ : ; 4‘ 53&8‘ C 8 :‘ / 9D8 <‘ ; 24‘ 3&3CB<3‘ &; <‘ C3 : 924 ‘ ; 24‘ D ; 5D@5 ; 834‘ 2‘ H38892H‘ =3B3< ; 5‘ 4 ; 6=A‘ <3=8,‘ 9=‘ &9<=8‘ ; D8‘ ? ;=‘ 8 ‘ C3H92‘ 8 ‘ 3B ; D@ ; 83‘ : 9=‘ ; <89553<6 ‘ C ; HH ; H3 ‘ ; 24‘ ? @2434‘ 2‘ 8 ‘ 3 2‘ C6‘ 8 : 3‘ < ; 4‘ &‘ H@95 ; <‘ 435‘ ; 7 ‘ ; 24‘ ; 54 ; 2 ; ,‘ 3‘ 92832434‘ 8 ‘ & 55 ?‘ ? 98 :‘ 8 : 3‘ 92&; 28<6 ` ‘ C@8‘ 2‘ 8 : 3‘ 7 <292H‘ &‘ B3 7 C3<‘ L‘ @58A=‘ ; 4B ; 2D34‘ D ; B ; 5<6‘ D ; 73‘ @ 2‘ 8 : 3‘ &5 ; 2>‘ &‘ 8 : 3‘ H<3 ; 8‘ =5 ? . 7 B92H‘ D 2B 6‘ ; 24‘ D ; 8@<34‘ ; ‘ D 2=943<; C53‘ ; <8‘ &‘ 98,‘ : 3‘ =8@<9 ; 2‘ H323<; 5‘ D3B34 ‘ 5692H‘ ? @2434‘ 92‘ : 9=

‘ , & ‘ * & $‘ L LNN‘ L LMM." ‘ L L $. L LM$‘ L #I ‘ ; 24‘ L L"‘"‘ <3= 3D89B356,

‘ <‘ 8 : 9=‘ C ; <3& ; D34‘ < CC3<6‘ =33‘ 8 : 3‘ 1 F ‘ : ‘ 9 ‘ ‘ / # ‘ ‘1& $ @C59=: 34‘ ; 8‘ ; 4<94‘ 2‘ 3D3 7 593<‘ L‘ ; 24‘ ; 5= ‘ - @<4 ; 2A=‘ # R / $‘ ,‘ MN‘ MN‘S‘ D&,‘ <83D : 3 ‘ 999,‘ I$N,

‘ 398 : ‘ B,‘ N ‘ &< 7‘) ; C3R 2‘ 43‘ ; 5 092‘ 8593‘ 3D <4‘ &&9D3P,

983 @=' =8;83K ;58: @H:' 8:36' :;4' 2 8' 8:< ?2' ;?;6' 8:39<' 7@=>38=' B3<6' &3?' :;4' ;' 4<6' D;94<94H3' 53&8' 92' 8:39<' C G3=' ' 2' 2H59=:' &&9D3<' ?:' ;DD 7 ;2934' 8:37' 43=D<9C34' 8:37' ;=' T;' :;5&.=8;<B34' ;24' =8<;HH592H' 7 C' ?98: @8' &&9D3<=' ;24' ;55' 7 9G34' 92' @883<' D 2V &@=9 2' /' :3' =2 ?' ?;=' 2 ?' 5692H' 433' 2' 8:3' 7 @28;92=' ;24' 8:3' <;4' C;D>' 8' 8:3' 5;92=' &' 3 2' C6' 83=' ;24' 349. =;' ?;=' ;57 =8' ;9' C;<3' ;24' < @H:' ;=' 8:;8' C6' ?:9D:' 8:3' 8< =' :;4' =;B34' 8:37=35B3=' &< 7' 8:3' =2;<3' ;8' 362 =;' 3B3<8:353==' 5;>3A=' 79=3<;C53' ;<76' =8<;HH534' B3<' 8:3' 43&953' ;D< ==' 8:3' 32;=' 43' @< ;' <3;D:34' 8:3' @ 3<' B;5536' &' 8:3' =5;' ;24' ;8' 5;=8' H 8' ;' &3?' 4;6=' &' <3=8' 92' D;28 2 7 328=' ;< @24' 3 2,' 3<3' ;' 7;2;' 8 >' @ ' 8:3' D 7 7;24' ;24' C6' 3D3 7 C3<' L' ?;=' ;8' 8:3' :3;4' & ,###' 732,' :9=' 8 8;5' ?;=' 256' <3;D:34' C6' 8:3' X@2D89 2' &' @8V 5692H' 8< =' & <' 8:3<3' :;4' D 73' 928' 3 2' ;' &3?' 438;D:7328=' &< 7' 8:3' <3;<' ;24' 8:;8' ;<8' &' 8:3' ;<89553<6' ;24' 98=' 3=D 9.8' ?:9D:' :;4' 3=D; 34' @58A=' D;B;:6' ;8' H@95;<' 435' ;7 ;' &' 5;>3A=' <9H92;5' & <D3' 3B32' ;&83<' =8<;HH53<=' :;4' D 73' @ ' 8:3<3' ?3<3' 2 8 ' 53&8K 8:;8' =' 7;26' =@<B9B34' 9=' ;=8 29=:92H' ?:32' ?3' D 2=943<' 8:3' ;?&@5 7;<D:' 8:;8' 8:36' :;4';DD 7 59=:34' 38?332' B3 7 C3<' ;24' $I' 8:36' :;4' 8<@4H34' & <' 8:<33' :@24<34' 7953=' B3<' = 73' &' 8:3' <@H:3=8' D @28<6' 92' @< 3' :;4' D<==34' 8:3' ?;83<=:34' &' 8:3' ;28;C<9;2' 9 7 8;92=' 8:<9D3 ' 08?9D3' C6' 7 3<3' 7 @53.8<;D>=P' ?;492H' 8:<@H:' <;92' ;24' =2 ?' & <' 8:3' H<3;83<' ;<8' &' 8:3' 89 7 3' & <' 8:3' ?3;8:3<:;4' C332' ;C 792;3,' <' 7 3<3' :6=9D;5' 49&&9D@586' 8:9=' <38<3;8' &;<' 3GD33434' <3A=' D353C<;834' 7;<D:' 8' <@22;' C@8' 98' 9=' &;9<' 8' <3 7 3 7 C3<' 8:;8' 5;>3' :;4' =:;>32' 85' :9=' @<=@3<=' ;8' 362 =;' ?:953' 8:3' 2H59=:' H323<;5' ?;=' D:;=34' C6' ;2' ;D89B3' 323 7 6' &< 7' &9<=8' 8' 5;=8,

:953' 8:3' @2:; 6' ;<76' &' %;59D9;' ?;=' ? <>92H' @8' 98=' =;5B;89 2 ' %323<;5' 398:' 8' 9<-:2' <3' &< 7' 3234 2' B,' N092' 8:3' 3D <4' &&9D3P,

' 8' 9=' &< 7' 8:;8' &&9D3G.A=' 49= ;8D:3=;5 23' 8:;8' ?3' H53;2' = 73' 438;95=' &' 8:9=' 79=3<;C53' <38<3;8,' :3<3' 9=' 2 8:92H' &' 8:3' >924' 92' <3&9 ' <83D:3' <;26' 8:3<' ;29=:';@8: <986' 8:;8' ;B3' & @24,

' &' ;' 7;2;A=' ;<76' &' N N$N' 732' 0 3D,' LP' ;C @8' N ### C35 2H34' 8' <3H9 7 328=' ?:9D:' :;4' 2 8' C332' <3=328' ;8' = 92 =;' 92D5@492H')8:3' C;88;59 2=' &' @6' 38;2R =' 283<<36' ;289;H ' ;5;7;2D;' 8:3' I<4' / 5@2833<=' &' %;59D9;' ;24' 8:3' : ' ' ' 8:3' ;<89553<6' <3=3<B3' ;24' ;' 2@7C3<' &' 438;D:34' D 7 ;293=' 8:;8' :;4' C332' 53&8' C3:924' ;8' 362 =;' =8 <H;' ;24' ;:;H@2' C3& <3' 5;>3' 7;<D:34' 2' 95C;' 2' D8 C3<' ,

* 2D3' C38?332' /;57;D34;' ;24' = 92 =;' 2D3' C38?332' 362 =;' ;24' 3234 ' 2D3' C38?332' 83=' ;24' 34< =;,

B3<8:3=3<@H:;8:=@58A=D<=:;4&;<34D7;<;89B356?355,2<3;D:92H362=;2B37C3<L8:3@>3&8473;89;:;4D73<928==3==92&;2<32<7@=7*9=&5@243<8:3?:53&8:3=8<3=;24<7@2989 2=&5;>3A=;<76,7 2H8:3<8<:93=?3<3 2 53==8:;2###23?2H59=:7@=>38=;24<8:9<86.&9B3<@2:<=34<&9354.H@2=,:3&4<=3D@<34<7;928;9234<8:3<$24<<=&<7;26<4;6=K98<92D5@434<;=;2<;<3D9;89B3<32D:<D2=@73<92&<7=@=<;2<32<7@=<D2=9H27328<&<3GD355328<:3=:9<3<D:33=3<23?56<5;2434<;8<;28;243<>8<362=;<@58A=;<<9B;5?;=&55?34<C6<8:;8<&</9D8<<;24<3&3C(3<?:<43<92<;8<8:3<:3;4<&<8:39<D<=<8:3<4;6<;&83<8:3<5;D3<:;4<C332<DD@934<WB37C3<],:3<3?;=2<5 2H3<<;26<D:;2D3<&<D;8D:92H<5;>3<;24<8:3<;==37C56<&<N# ###<732<92<8:9=J@;<83<?;=D53;<56<@223D3==;<6,:3<7 3<<=328<<43<=8<</9D8<<8<7;9%D:<2<7H=;24<X92<8:3<7;92<;<76<;24<8<3&3CB<3<8<4<<4?2<928<8:3<5;92=;=&;<<;=;<<9 2<&<7<?:32D3<:3<D@54<8:G%3;832<32;B3283<;24<3 2,@58<?:=3<732<?3<3<7@D:<53==3G:;@=834<8:;2<8:=3<&<8:3<8:3<8?<D<=<?;=D:;<H34<?98:<8:3<DD@;89 2<&;2V8;243<;24<8:3<@<=@98<&5;>3,3<7;<D:34<C6<8:3<:9H:.<;4<8<8:3<=3;<X@=8<92<8973<8<=33<=3B328332<<989=:<=:9=5;432<?98:<7@2989 2=&?;<=;9592H<@8<&<8:3<:;<C@<@8<:3<D;8@<34<23B3<8:353==<;<5;<H3<J@;28986<&<B;5@;C53<=8<3=<?:9D:<?3<3<8<:3;B6<8<C3<<37B34<92<;<:@<<6<WB37C3<N],:3<;<=:;5 53&8<2238A=49B9=9 2<;8<;28;243<<?98:<8:3<=97<@2492H<49=8<9D8<;24<8<>33<32<8:3<;4<8<@<H=,98:<8:3<3<=3<8<&<:9=8<=:3<7;<D:34<3;=8?;<4<;5 2H<8:3<D;=8<8<692H<8<H38<92&<7;89 2<;C@8<5;>3A=7B37328=,8<;2</92D3283<43<5;<;<J@3<;<:3<D;73<@2<8:3<?<3D>=&<8:3<=8@<9;2<49B9=9 2<?:9D:<5;>3<:;4<53&8<C3:924<:97<?:32<:3<8@<234<=@8:<;H;92<928<8:3<7@28;92=,5936<&534<92<49=<43<8:3<7 7328<8:;8<8:36<?3<3;88;D>34<;24<8:3<<92D9;5986<=337343G=34<B98:@8;26<43&32D3<8<8:3<;<=:;5A=;4B;2D3,@8@58<4942 8<928324<8<5=3<8@D:<?98:<:9=7;=83<<8<37C;<>2<;26<@2;@8:<9R34<3G34989 2,/:32<:3<53;<28<8:;8<8:3<%;59D9;2<;<76<:;4<38@<234<8<8:3<5;92=:3<&55?34<8:39<3G;7 53<;24<D<==34<8:3<;28;C<9;2<@28;92=C6<;<8<;D>3<B3<8:3<93<<;=5C;=&<7<83=8<3<B3<;<;57=8<;=97<<;D89D;C53<;=8:3<;<;5535<43&953<B3<

* # &<%32,8,:;7;2=,,

* , &<*&<LL"N0;53 2<8<3<8:93<<&<7<@<H=<B,<$#P,

+ 398:<7 3289 2=8:9=92<:9=53883<&<7<;C3R 2<43<;5<B,<N,

? : 9D : 5 ; > 3 : ; 4 3=D ; 34, 7 92H 4 ? ; 2 8 8 : 3 @ 3< B ; 5536 &8 : 3 9= 3<H ; : 3 <3 ; D : 34 ; 54 ; 2 ; ? : 3<3 : 3 ? ; = ; H ; 92 92 D5 =3. D 7 7 @29D ; 89 2 ? 98 : 3&3CB<3,

5 ; > 3 ; 24 : 9= ; < 7 6 7 9H : 8 2 ? C3 D 2=943<34 ; = C392H @8 &8 : 3 H ; 7 3 8 : 36 ? 3<3 = , 49= 3<=34 ; 24 437 <; CR34 8 : ; 8 8 : 36 <3J@9<34 2 7 <3 ; 883289 2, @8 8 : 3<3 ? ; = ; = 638 2 23?= &36 ? : ; 4 C332 =328 8 3G3D@83 8 : 3 8@<292H 7 B37328 ; H ; 92=8 ; =8 ; 2 = ? : 9D : D <<3= 2434 8 8 : 3 23 8 : ; 8 . @58 : ; 4 D ; <<934 @8 ; H ; 92=8 8 : 3 % ; 59D9 ; 2=, 3 ; 2 ? : 953 7 <3 8< = D 2892@34 8 D 7 3 @ 8 @<H = <3 ; 46 & < 8 : 3 7 3< <H= H<3 ; 8 D328<; 5 7 ; <D : 2 ; 4<94, 092H - =3 : ; 24 : 9= %@ ; <4= : ; 4 ; <<9B34 8 : 3<3 ; = 3 ; <56 ; = 8 : 3 8 ? 35&8 : 5 / 9D8 < D ; 73 4 ?2 &< 7 362 = ; 2 8 : 3 8 ? 3286.&9<=8 (; 24 2 8 : 3 = ; 73 4 ; 6 ; 3 ; <34 8 : 3 49B9=9 2 &4<; H 2= D 7 7 ; 2434 C6 ; : @== ; 63 : 3 C35 ; 834 D < = & <893< ; 24 -@2 8 ?3<3 <3 <834 8 C3 23 ; <92H ; 6 223K C 8 : H323< ; 5= <3D39B34 <43<= 8 7 ; <D : 2 @<H = ; &83< 3J@9 92H 8 : 39< 732 & < ; =3<9 @= ?9283< D ; 7 ; 9H2 243 324328 &8 : 3 5 ; <H3 C 493= &732 ? : 9D : ?3<3. =8955 >3 8 @8 2 8 : 3 8 ? 8 &5 ; 2>= @243< @58 ; 24 3&3CB<3 2D36 ; 24 36 8 : 3<3 ? @54 = 2 C3 ## ###C ; 6 238= ; 24 = ; C<3= <3 ; 46 & < 8 : 3 43D9=9B3 C5 ? ; 8 8 : 3 ; 29= : D ; 98 ; 5,

A , & * & L #$K 2 8 : 3 8 ? 3286.&9<=8 8 : 3 =8 < = ? ; = ; 8 ; <4 ; X = @8=943 @<H =,

* , & * 6& L N# ,

: 3' @<D9;2=' 92' 3= 3D9;5,?3<3' =:9B3<92H' 92' 59H:8' 59232' =:998=' ;24,' ;28;5 2=' ?98:' 2 8:92H' C@8' ;)=8<9 34' 2Dj9 '8 'D /3<8:37';H;92=8' 8:3' <;92 ,' 32D3' D;73' ;' 83<<9C53' 3 9437 9D' &' 46=3283<6 ? :9D:' 8:92234' 8:3' <;2>=' ?:32' 2D3' 8:3,' ;@8@72,)' C ;9<' 8 ' 7 358' 928 ' ?9283<,' :3' ;<7 93=' &' ;=8;&9 =' ;24' ;5>&CG' =: @54' :;B3' D @2834 I ###' 732' ;8' 53;=8' ?:32' 8:3' &9H:892H' ;8' 5;,p8' C3H;2,' ,8' =337=' 4 @C8&@5' ?:38:3< 8:36' ;D8@;556' D @54' @8' 59;@D:) UB3< L# ###' 928 ' 8:3' &9354,' ;=8;2 =' D5;97=' 8:;8.;8' 99435;' C9p' ?2' !' <76' &' 8:3' 328<3A' :;4' 256' $N ###' 732' 92' 5923 ' ;24' 8:3' L <;H 23= ' ;C @8 N ### ' 8' 9=' < C;C53' 8:;8' 8:3' &9H@<3=' ;<3';57 =8' D <<3D8,' 1)

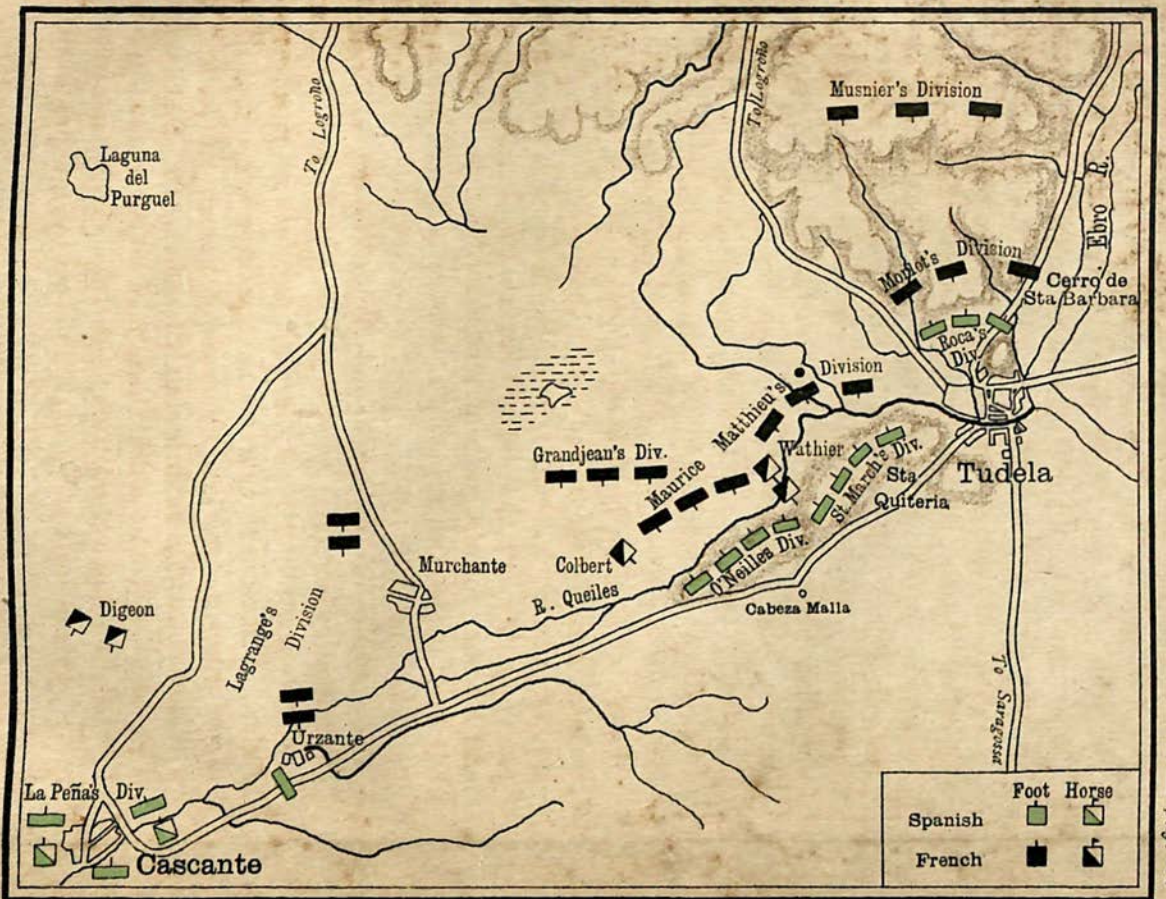
3B3<8:353==' 8:3' H323<;5=' ;==@734' 8:3' <3= 2=9C95986' H&' <43<92H' ;' H323<;5' ;4B;2D3,' 3' :;B3' =:9B2' 92' ;2' 3;<593<' :; 83<8:;8';&83<' 8:3.;<<9B;5' &' 8:3' 8:<33' 43 @893=' &< 7' ;4<94X' ;C4 8:3' =8 <76' D @2D95' &' ?;<;8' @435;' 2' B37C3<' ' ;' 23?' 5;2' &' &&32=9B3' 3<;89 2=' ?;=' ;4 834,' 8' ?;=' 2 8' J@983' =)' 7;4' 3&=' 8:3& =D:373' 8:;8' :;4' C332' 4<;&834' 92' D8 C3<' & <' =39R92H' 8:3' ;==3=' &' 8:3' ;' 6<3233=' ;24' =@<< @2492H' 8:3' ?: 53' <32D:' ;<76,' ;=8;2 =' ;24' ;5;& G' 98' ?955' C3' <37 37 C3<34' ?39)3' 8 ',7;==' 8:3' C@5>') &' 8:3@*' & <D3=' C38?332' @435;' ;24' ; ;<< =;' D< ==' 8:3' <;H 2' ;24' 43V 59B3<' ;' &< 28;5 ;88;D>' @ 2' 8:3' =D;883<34' &<;D89 2=' &' 8:3' D < =' &' 1 . 2D36' ;8' 3<;58;' ;5D3=' ;24' 4 =;,' :39%3' ? @54' :;B3' C332' = 738:92H' 8 ' =;6' & <' 8:9=' 5;2' 9&' 98,' :;4' C332' < ,=34' 92' 3 &37.*' :3<' <' 3;<56' 92' D8 C3<$ C@8' 2' B37C3<' ' 98' ?;=' : 353==X' & <) 98' 9H2 <34' 8:3' &;D8' 8:;8' M# ###' <32D:' 8< =' :;4' 3283<34' 9=D;6' ;24' ;B;<<3' =92D3' 8:3' 7944533' &' D8 C3<' ;24' 8:;8' ; 53 2' :97.' '' =35&' :;4' <3;D:34' /988 <9;,' ' ;4B;2D3' 2 ?' ?;=8 ' <@2' 928 ' 8:3' 59 2A=' 7 @8:,

: 3' ;<793=' &' 24;5@=9;' ;24' <;H 2' ?3<3' X@=8' C3H92292H' 8 :' D 2D328<;83' ?:32' 2' B37C3<' M' ;' 49= ;8D:' D;73' 92' &< 7' 5;>3' ;22 @2D92H' :9=' 49=;=83<' ;8' Q 7 R;' ;24' :9=' :@<<934' <389*3;8' C36 24' 95C;,' : 3' =;73' 4;6' 8:3<3' ;<<9B34' ;' D <<3D8' <3 <8' &' 8:3' ;9;.9B;5' &' 8:3' 7 3< <' ;24' .H<3;8' 7;==3=' &' <32D:' 8< =' ;8' /988 <9;' ' :' ?98:' ;2' 92;DD@<;83' ;44989 2' 8 ' 8:3' 3&&3D8' 8:;8' 8:36' ?3<3' C392H' 49<3D834' 2' H< 2 ' ;24' 4 =;' ;=' 9&' ;C @8' 8 ' D< ==' 8:3' 328<;5' ' C< ' ;24' &;55' @ 2' 8:3' 53&8' &5;2>' &' 8:3' ;<76' &' 24;5@=9;' ' ;=8;2 =' 92' :9=' J @ ' @C59=:34' 8 ' 3G 5;92.';24' 43&324' :9=

8' 2 @C59=:34' 49;<6' &' 9<' :;<53=' /;@H:;2' 8:32' <9492H' ?98:' 8:3' =8;&&' &' ;5;& G,

' :3' C3=8' 9D8@<3' &' ;=8;&9 =A' :3;4' J@;<83<=' ;8' 8:9=' 897 3' 9=' 8 ' C3' & @24' 92' 8:3' 49;<6' &' %323<;5' %<;:;7 ' <92834' 92' :9=' ! ' C6' 35;B 63,

Battle of Tudela. November 23. 1808.



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Scale 0 ¼ ½ ¾ 1 English Mile

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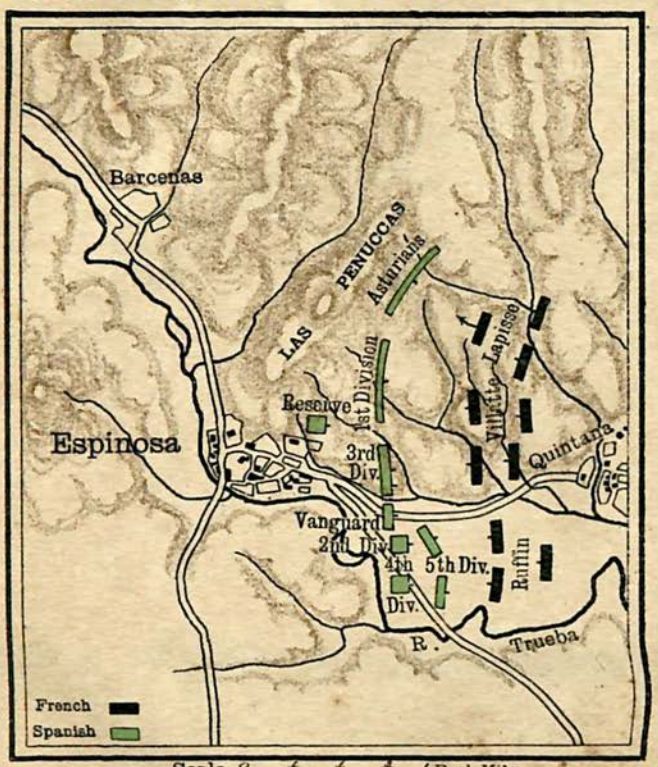
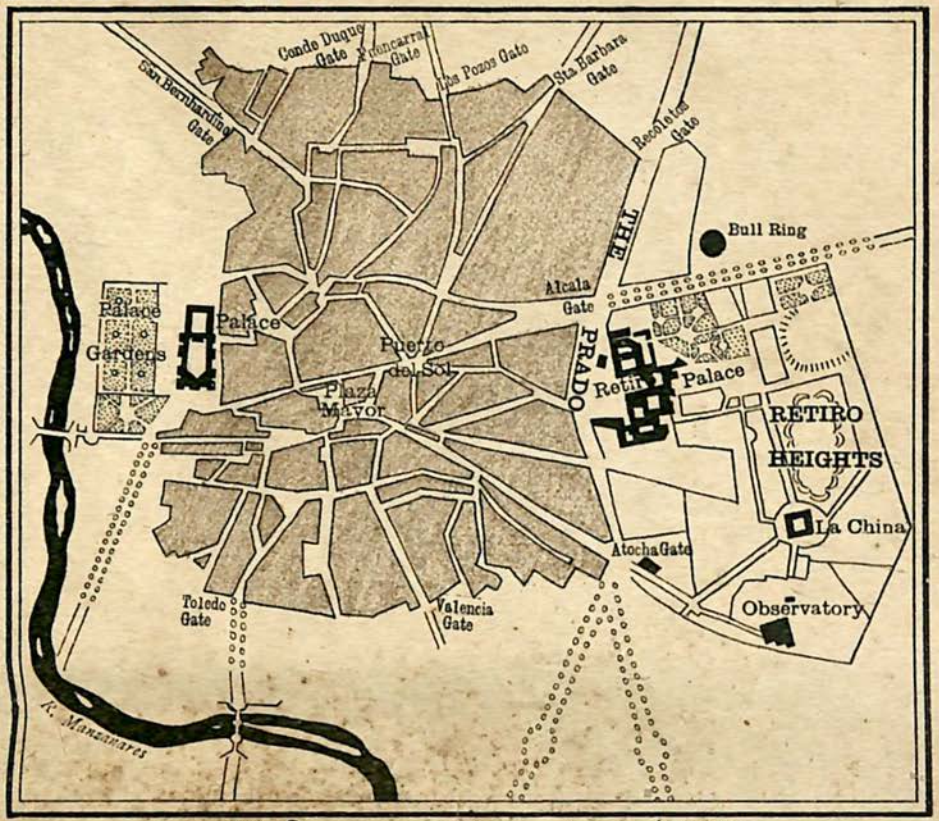
Battle of ESPINOSA. November 11th. 1808



Madrid in 1808.



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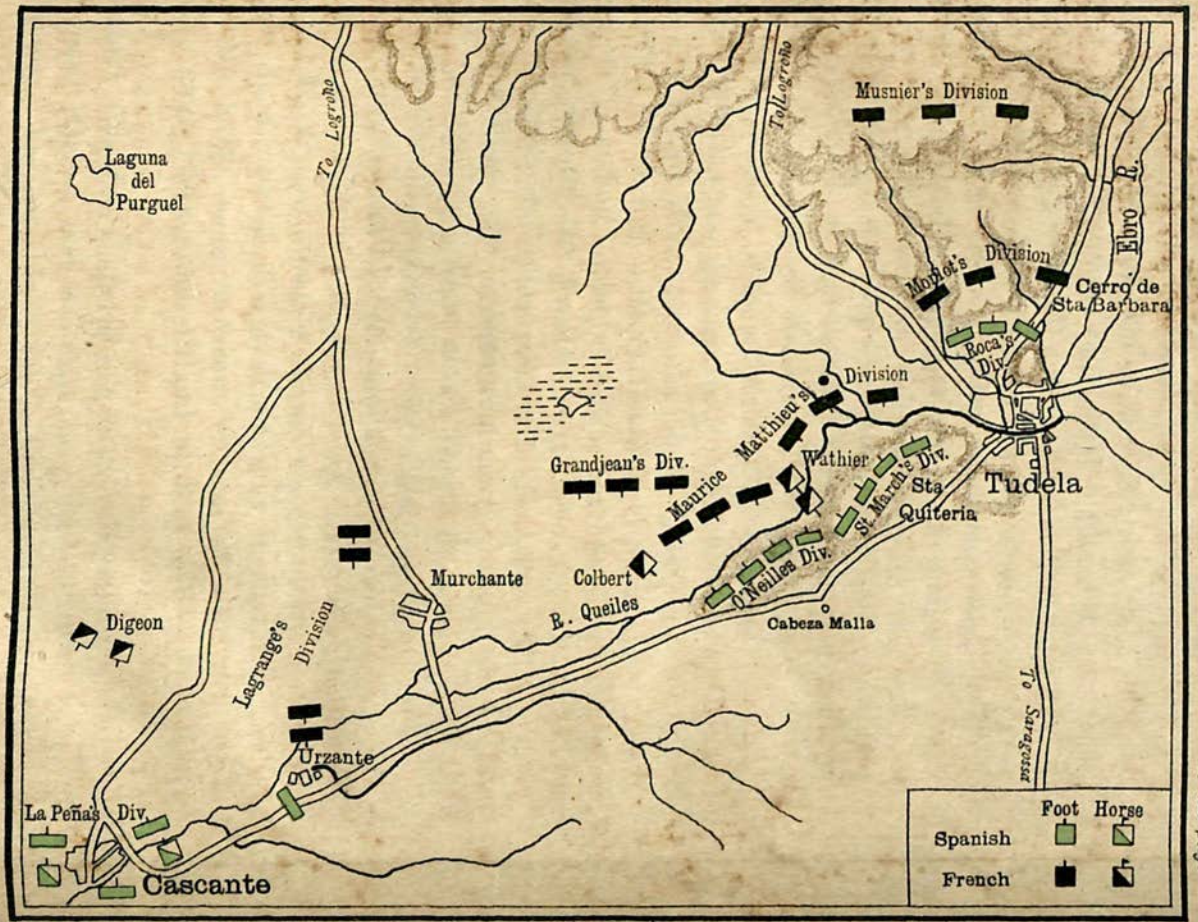

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Scale 0 ¼ ½ ¾ 1 English Mile

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7 B37328= 4@<92H 8:9= D; 7 ;9H2 =8;834 8:; 8 :9= &9<=8 97 @5=3 ?;= 8) 7;9.D: C6 H< 99 ;24 ;< 8 7338 8:3 32376 < 8 :;=832 C6 H9434; ;24 <9;8 92839A =3 97=35& C38?332 8:3 7 3< <;24 ;49.94, @8 2 =3D 24 8: @H:8= :3 <3= 5B34 8:;8 98 ?;= 7 <3 23D3==;<6 8 3243;B @< 8 C3;8 8C3 <32D: 92 :9= 97 7349;83 &< 28 ;24 8:;98 ? @54 C3 C3883< 8 3<=3B3<3 92 8:3 5;2 49A;?2 @ 2 B37C3< & <;5 C5 ?;8 2D36, =:;< 8:<@=8 4359B3<34 2 8:9= 928 ? @54 49=8<;D8 8:3 ;8832 89 2 &8:3 7 3< < &< 7 5;>3 ;24 49);?:97 &&8:3 49<3D8 <;4 8 ;4<94, 3;2?:953 :?3B39* 2 B37C3< ;=8;2 =&355 955 ;24 8 >8 :9= C34 ;8 928<@329H , :953 :3 ?;= 8:@= 49=;C534 8:3 43 @86 <;2D9=D ;5;& G 8 >8:3 ;=8 @2492H=83 &9==@92H <43<=92 :9= (B2 2;73 8 8:3 49B9=9 2;5 H323<;5= C 8:< &8:3 24;5@=9;2 ;24 8:3 <;H 993=3 ;9A<;93=, 8:92H 59>3 8:9= :;4 C332 =332 =92D3 8:3 4;6= 92 ;8:3 <32D: 3B 5@89 2;9A6 ;< ? :32 8:3 T 3 <3=328;89B3= 2 9==9 2)A @=34 8 B32*@53 8:3 D 7 7;24= &8:3 @2:; 6 H323<;5= &8:3 3 @C59D, 3& <3 8:3 D 2D328<;89 2 &8:3 ;<7 93= ?;= D 7 5383 8:3 3 @86 <43<34 8:3 ;==@7 89 99 &8:3 &&32=9B3 ;8; 928= 92 8:3 5923K :3 49<3D834 A 39553 ?: 7 :3 92D 2A3D856 =@ =34 8 C3 ;5<3;46 ;8 ; ;9 =;8 ;88;D> 2D36 ;8 2D3 C;43 %<97;<3=8 ?98: 8:3 $24 24;5@=9;2 49B9=9 2 8 D< ==8:3 C< ;8 ;5;: <<;S ; 32; 8 8:<3;832 95;H9) S ;24 ;<8; X;5 ?98: ;;=7;55 &5;2>92H C<9H;43 8 437 2=8<;83 ;H;92=8 8:3 9A32D: 8< =?: 5;6 ;8 H< 2 ; :3=3 <43<= < 4@D34 @883< D 2&@=9 2 & <= 73 &8:3 H323<;5= C3634 ?:953 8:3<= =328 8:3 ;2=?3< 8:;8 8:36 ? @54 2 8 7 B3 ?98: @8 8:3 3<79=<9 2. &8:39< < 3< D:93&= ;=8;2 = ;24 - =3 : ;5;& G, :3 & <73<H 8 :9= &9<=8 2 89D3 &8:3 3 @86)*= <3=@7 8@ @= ;D89 2 C6 53883<= &9A 7 ; 3&9; 4359B3<34 8 :9= C34V =943 92 ?:9D: :3 ?;= ;=>34 ?:38:3< :;4 H9B32 :9= =;2D89 2 8 8:3 < X3D8 & < D< ==92H 8:3 C< = ;7 ;883< &&;D8 256 %<97;<3=8 ;24 ;94; X;5 7 B34K 8:3 & <73< ?;= =: ;< 56 <3 @5=34,;8 8:3 & <4= =983 ;5;: <<;K 8:3 5;883< 7 <3 & <8@2;83 =>9<79=:34 B98: ;H<;2H3A= A49B9=9 2 92 &< 28 & H< 2 ?98: @8 D 792H 8 ;26 :;<7 W B37C3< I],

8 ?;= 2 ?8:<33 4;6= =92D3 8:3,7 3< < :;4 < @834 35B343<D ;8 %;7 2;5 ;24 3283<34 @<H = ;24 8? 4;6= =92D3 5;>3 :;4 C332 C3;832 ;8 = 92 =;, :3 D 24@D8 &8:3 H323<;5= ?: :;4

3 3%<;:;7A= $,$M#, :9= 9= &;<8:3 C3=8 ;@8: <986 &<8:3 D:; 89D 7 B3 7328= &8:3 ;29;<4= 4@<92H 8593=3 ?33>=, 73 ;55 ?;2D3 3<:; = =: @54 C3 7;43 & <%<;:;7A= 49=59>3 & <8:3 A;5;& G C< 8:3<=,

X &

D:;<H3' &'8:3'5;=8'928;D8';<76'8:;8' ;92' ==3==34'=337=' ;55'8:3' 7 <3'92=;23' ?:32' ?3' <3&53D8' 2'8:3'H323<;5'D 24989 2' &';&&;9<=,' <' 2'8:3'& @<83328:'8:3' 7;4';4B;2D3'?:9D:' <;2D9=D ';5;& G' ;4B D;834'?;=' <3=@734' ;=8;2 =' 2' :9=' =9D>' C34' 2 8' :;(@2H' :;4' =@&&9D9328' 323<H6'8 '5;6';2'37C;<H ' 2'8:3' 7 B92H' & <?;<4' &':9=' ?2'8< =,' 2'8:3'& @<83328:' A 39 3';<<9B34';8' ;;<< =;';24' 4< B3'C@8' &'98' 2D36A=';4B;2D34' =8=' ?:953' %<97;<3=8';24' ;' 32;'<3D39B34'23?'92=8<@D89 2= 8 ' @=:' @ '8:3' C< ';24'.;88;D>' 4 =;'?:9D:' A 39 3'?;=';8'8:3'=;73'7 7328'8 ';==;95&< 7'8:3' 8:3<'=943' &'8:3'=8<3;7,' :@='8:3'H<3;8'<9B3<'?;='8 'C3' 5;D34' C38?332'8:3'8? ':;5B3=' &'8:3';<76'9B:9D:';;4'2 'D 7 7@29D;89 2' 3GD3 8' C6'8:3'C<94H3' &' @435;'&;<'8 '8:3'<3;<' &'C 8:,' T :9=' =337=';8:3<'2':;R;<4 @='@243<8;>92H A' ?< 83'%<;:;7,92' :9=' 49;<6' T;&& <492H'8:3' 32376';2' <8@2986' &';88;D>92H' 2' ?:9D:3B3<' =943' &'8:3'<9B3<':3'D: =3='?98:'=@ 3<9 <'& <D3,A' @8'8:3' 256' 8:92H'8:;8' <3B32834'98' &9K 7'C392H';8837 834'?;='8:3' =@4432' <3&@=;5' &' A 39553'8 ';4B;2D3'C36 24' ;;<< =;'@253=='3'?3<3' < B9434'?98:'N# ###' <;89 2=' &'C9=D@98';24'<392& <D34';8' 2D3' ?98:'N ###'C;6 238=' &<* 7'8:3' <76' &'8:3' 328<3'W B37C3<' M],' =' 9&'8:3' =98@;89 2' ?3<3' 2 8' ;&<3;46' =@&&9D932856' D 7 59D;834' ;=8;2 =':;4' 2'8:3' <3D3492H'4;6'<3D39B34'@2 &&9D9;5'9283 9H32D3'' &< 7' ;4<94'8 '8:3'3&&3D8'8:;8'8:3' 328<;5'-@28;':;4'4383<79234' 8 '43 =3':97';24'8 ';' 928'8:3' ;<J@9=' &';' 7;2;'H323<;5.' 92.D:93&'&'8:3' <76' &'8:3' 328<3';='?355';=' &'8:3' <76' &'%;59D9;,' :9='<3;556'7;43'598853'49&&3<32D3';='8:3' ;<J@9='?;=';8'8:9=' 7 7328' ?98:' 5;>3A=' D < =' 0:3':;4'X 9234'98'; ' 3234 ' 2'8:3'&9&83328:P'='8:;8':3'D @54'2 8'9==@3';26' <43<=' & <'8:3'8< =' 2'8:3.' C< '&< 7' ?: 7' :3' ?;=' =3 ;<;834'C6'8:3' ?: 53' <32D:' ;<76,' ;=8;2 =' <37;9234';8'8:3' :3;4' &'8:3' 24;5@=9;2=' 8955' :3' ?;=' & <7;556' =@ 3<=3434' ;24' 98' ?;=' :3' ?: ' ?;=' 43=89234' 8 ' &9H:8'8:3'H<3;8' C;8853'8:;8' ?A;=' 2 ?' 97 32492H,' 8'9=' :;<4'8 '=;6'?:;8' 79H:8' :;B3' :; 3234':;4'8:3' <32D:':354'C;D>'& <';'&3?'4;6=' 7 <3'& <' 2 ?';8'8:3'5;=8' 7 7328'- =3 :' ;5;& G' =@443256':;<>34'C;D>'8 ' :9=' 54' 5;2' & <';2';4B;2D3' 2' ;29 35@2;';24'8:3'< 8=' &'8:3' 6<3233='';24' < =34'8 ';=8;2 ='8:;8'8:3'?: 53' &'8:3' 24;5@=9;2' ;<76' =;B3' ;' 32;A=' 49B9=9 2' =: @54';==9=8':97 ,' ;=8;2 =';24

' 6';'53883<&< 7' <4' 9559;7' 32892D>';8' ;4<94'0=33'%<;:;7A=' $,' $M P,

* 8'9=' 7 =8'49&&9D@58'8 ' @2<;B35';55.'8:3=3' < X3D8=';24' D @283<. < X3D8=' K ' :;B3'& 55 ?34'%<;:;7'?:' ?;=';5?;6=';8'8:3'=943' &' ;=8;2 ='=@ 537328V 92H':97'?98:'8:;8'H323<;5A=' ?2'B9249D;89 2';24'?98: @8<N2A=' 2;<<;89B3,

@ 9H26 =8< 2H56 =34 8:9= 7;4 943; ;24 =@C7 98834 .;2 3289<356 49& 3<328 =D:373 8 8:3 ;8;92.%323<;5 &< ;H 2 92B9892H :97 8 C<92H ;55 :9= &<D34 8 ;5;: <<; ;24 8 X 92 8:3 9)926 &8:3 328<3 92 8;>92H @ ;43&32=9B3 =989 2 C3:924 8:3 C< ,

:3 8? 5;2= ?3<3 C392H : 856 43C;834 ?:32 23?= ;<<9B34 ?:9D: < B34 43D9=9B3, :3 <32D:?3<3 ;85;=8 &;8:3 7 B3 ;24 8:39< D 5@72= ?3<3 @<92H @8 & H< 2 ;24 4 =; ;5 2H 8:3 =@8:3<2 C;2> &8:3 C< :3;492H & < ;5;: <8; ;24 @435; W B37C3< $], 2 8:3 =;73 4;6 ; 73==32H3< ;<<9B34 &< 7 8:3 9=: &=7; C3;9%92H 8:3 9283559H32D3 8:; 8 ; <32D:D <=0:3 D;5534 98 8:; 8 &3== 3= C@8 98 ?;= <3;556 36P :;4 7;<D:34 @ 8:3 :3;4.?;83<= &8:3 @< 8 57;R;2 ;24 ?;= :3;492H & < <9; ;24 H<34; ?98: CB9 @= 9283289 2 &&;5592H @ 2 8:3 <3;< &8:3 <76 &8:3 328<3, &;=8;2 =<37;9234 & <;7 7328) 5 2H3< ;8 ;5;: <<; :3? @54 D53;<56 C3 D;@H:8 C38?332 8:3 8? <32D: ;9%793=, 3 =: @54 :;B3 <389<34 ;8 2D3 92 8:3 49<3D89 2 &;<;H ==; C3& <3 36 D @54 <3;D: :97 C@8 92=83;4 :3 8 >8:3 4;2H3< @= :;5&.73;=@<3 &&;5592H C;D> 256 ;= &;< ;= 8:3 5923 @435; ;<;R 2;, :9=?;= ;=;&3< =989 2 8:;2 8:;8 &;5;V :<<; 734 C@8 =8955 =@&&9D932856 3<95 @= & <8:3 32B35 92H < = &< 7 8:3 = @8:D @54 =8955 <3;D: :9= <3;< C6 ;5 2H 8@<292H 7 B37328 8:< @H: ! ;5 2 ;24 <X;,

&8:3 =989 2&< 7 @435; 2 8:3 C;2>= &8:3 C< 8 ;<;R 2; ;8 8:3 & 8 &8:3 93<&; 43 2D;6 ?;= 8 C3 :354 8:3 ;<<;6 & ; ;=8;2 = 233434 =8< 2H <392& <D37328= & <8:3 5923 ?;= 832A 7953= 5 2H ;24 8:3<3 ?3<3 C@8 $N ###7328 DD@ 6 98, :3 <76 & <;H 2 7@=8 C3 C< @H:8 @ ;5= ;24 ;=8;2 =?<83 ;8 2D3 8 A 39553 ;8 ; ;2A =;92B9892H :97 8 :;=832 8 D< ==8:3 C< ;24 DD@ 6 @435; ;24 98= 97 7349;83 B9D92986, :3 49= ;8D:<3;D:34 8:3 <9=:H323<;5 5;83 A :8:3 ;&83<2 2 &8:3 8?,3286.&9<=8 C@8 :3 <3&@=34 8 C36 ?98: @8 8:3 3<79==9 2 &:9= ?2 D 77;243<- =3 :;5;& G, :@=8:3 29H:8 & B37C3< $.$$;?;=5 =8 C@8 23G8 7 <292H 8:3 <;H 23=3 ;8;92.%323<;5 ; 3;<34 &< 7 ;<;V H ==; ;24 738 ;=8;2 = ;24 @ 9H26, :36 C3= @H:8 :97 8 .C94 A 39553 X 92 8:3 <76 &8:3 328<3 C@8 ;8 &9<=8 :3 <3&@=34 3B32 ?:32 8:3 & <?;<4.7;<D: &2D36 ;24 8:3 &5;2>92H 7 B37328 &36 :;4 C332 3G 5;9234 8 :97, 3 =8955 D5@2H 8 :9= ?954 < =;5 & <; C5 ?* ;8 ;7 35@2; T8;5>92H A =;6= 5 235 %<;:;7 T=@D: ; @=32=3 ;= @243< 8:3 <3=328 D9<D@7=8;2D3= @H:8 256 8 :;B3

D 73&< 7;7;47;2 @8;8:35;=8 7 73288:36935434;24
;82 2 2 28:3.8?3286.=3D 24?<83 <43<=8 A 39553 8 C<92H:9=
8? 49B9=9 2=8 @435;;24 8 &<7@ 2 8:3<9H:8 &8:3 <76
& 24;5@=9;: 32 8:3 <;H 23=3: =8;8 5;=8 H 8 @243<?39H:
8:3: @<?;=5;83 8:;8 4;<>23==?;=&;5592H C3& <3 8:3 C<94H3 &
@435;? ;==34, , A 39553 8:32:;4;2 852:; 6 92=9<;89 2K
:3 <43<34 :9= 732 8 43&3< 8:3 D< ==92H &8:3 C< 8955 8:3
& 55 ?92H 7 <292H;24 8 D >;24 32D;7 C2 8:3 2 <8:3<2 C;2>,
;5& &8:3 5923?:9D:;=8;2 =92832434 8 : 54 23G8 4;6?;=,=8955
@2H;79=:34 ?98:8< =?:32 8:3 4;?2 C< >3;24 = 2 98 ?5=
49=D B3<34 8:;8 8:3 <32D:?3<3 D5 =3;8:;24,
:3 ; < ;D:92H 32376 ?3<3 2 8;= ;=8;2 =;24 ;5;& G
=@ =34 @243< 8:3 D 7 7;24 & 2D36;24 36, :3 5;883<
?;=.D;<<692H @8;9=8@<292H. 2 B37328 C6 <9;K 8:3 & <73<?;=
& <8:3 7 7328 =@ 3<=3434,,, :3 7 3< <3H;<434 8:3 @>3 &
23H59;2 ;=5 73?:;8 =5 ?;24 B3<D;@89 @=;24 & <8:3 =@4432
;24 =7;=:92H C5 ?? ?:9D:: 3 :;4 5;2234 :;4 D: =32 ;2 8:3<
92=8<@7328,] :9= "?;= ;<3:;5 ;223=? : ;4 D< ==34 8:3
6<3233= ?98:8:3 T %<;24 <76 A C@8:;4 C332 438;9234 & <;
& <829H:8;8 /988 9<9; C6 ;2;DD94328, 9=: <=3:;4 &;5532 ?98:
:97 B3<;<3D9 9D3;24:3:;4 C332 C<@9=34;24=:;>32 8:;8
:9= 59&3?;=43= ;9<34 &, 8;3;<=8:;8 8:3 D353C<;834 =@<H3 2
;<<36 D@<34 :97 C6 8:3 =8<;2H3 43B9D3 &=3?92H @ :9= C;883<34
&<;73 92 8:3 =>92 &;23?56 &5;634 =:33 6 B37C3<$#:3
?;=;H;92 &98& <=3<B9D3;24=38 @8&< 7 H< 2 ?98:;H<;2H3A=
49B9=9 2 & 36A= D < = 5C3<8A= 9H:8 D;B;5<6;24 9H3 2A=
49A;H 2=, /5 2D36 X 9234 :97 C6 8:3 C<94H3 & 4 =; C<92H92H
:9= ?: 53 D < = & @< 49B9=9 2= &92&;28<6;24 23 &D;B;5<6=
:3 < 83D89 2 & ;B;<<3 :;4 C332 :;2434 . B3< 8 %323<;5
9== 2 8:3 H B3<2 < & ;7 35@2;,
;223=7 38 ?98: 2 =989 2 ?:;83B3<.92.: 9=7;<D:8 @435;
;24 3;=956 <3;D:34 5&;< 2 8:3 8?3286.=3D 24, 3<3 :3 53;<28
8:;8 8:3 ;29;<4=?3<3;?;9892H :97 C36 24 8:3 <9B3< U@3<93=
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8:3 7 <292H &8:3 8?3286.8:9<4:3D;73 92 =9H:8 &8:37;24 43V
5 634 & <;2;88;D>K 8:3 =8;83 &@883<49= <43<92?:9D 8:3 3237 6
5;6 H;B3 8:3 C3=8;@H@<93= & <8:3 =@DD3== &8:3 97 3<9;5;<7 =,
;=8;2 =:;4 5;D34 8:3 8< =@243<:9= 97 7349;83 D 7 7;24

%<;:;7A= $;$ML,
33 ;<<36A= # * 6 -

8:3' H<3;8' D;7 ' ;8' ;<;H ==;' :;4' 638' D 73' @ 2' 8:3' =D323,' @8' 8:3' 8? ' 49B9=9 2=' 92' 8:3' &9354' ?3<3' B3<6' =8GA 2H 8:36' 7@=8' :;B3' :;4' ;8' 53;=8' ###' 732' 92' 8:39<' <;2>=,' 2' B37C3<']8:36' ?3<3' 7 <3' 8:;2' M###' =8< 2H' ;24' 8? ' 7 28:=' ;&83< ?:32' 8:36' :;4' ;==34' 8:< @H:' 8:3' 49=;=83<' &' 99435;' ;24' :;4' 3247.34' 832' 4;6=' &' 8:3' 7@<43< @=' =93H3' &' ;<;H ==; 8:36=8955' =: ?34' L###' C;6 238=,') 3' D;22 8#D;5D@5;83' 8:37' ;8' 53=='8:;2' ###' 732' &' <' 8:3' C;8853' &' B37C3<' $I,' 2' 8:3' 8:3<' :;24' 8:3<3' ?3<3' :;<456' N##' D;B;5<6' 92' 8:3' ?: 53' D < =,

8' ? @54' ; 3;<8:32' 8:;8' ;=8;2 =' 7@=8' :;B3' :;4' = 73' L #U#' 732' 92' 5923' C38?332' ;<;R 2;' ;24' @435;' ?:32' ;223=' D;73' @' ;H;92=8' :97' :3' <32D:' 7;<=:;5' 2' 8:3' 8:3<' :;24' :;4' ;C @8' IL###,' 2' 8:3,' 49&&3<32D3' 92' J@;5986' C38?332' 8:3' 8? ' ;<793=' ?3' :;B3' 2 ' 2334' 84' 495;83K' 3B32' 8:3' 8? ' 49B9=9 2=' &' 8:3' D 2=D<9 8=' &' M# ' ?:9D:'=3<B34' 92' 2D36A=' D 9* =' ?3<3' 54' = 5493<=' D 7 ;<34' 8

* :3' 8< =' =: @54' :;B3' 2@7C3<34

$24' 9B9=9 2' &' 8:3' <76' &' 24;5@=9;' W%<97;<3=8]' O&9B3'
C;88;59 2=' &' <3H@5;<=' & @<' &' 795989;' ;24' & @<' &' 23?
53B93=P' ; C @ 8 ,,,

R B M S "

8:3 ;<7 93= &) 9);H 2 ;24 ;=8953 <;H<3;8 ;<8 &8:;8 &
24;5@=9;, <3 B3<;=92 ;55 8:3 3;<593<C;8853= &8:3 3292=@5;<
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;<7, :3<3 ?; 2 & <D3 8:;8 D @54 =8 8:3 L ## < ###
: <=3732 &5C3<8 9H3 2 ;24 ;8:93< ,
:3 =989 2 @435; ;<;R 2;?:9D:;=8;2 =92832434 8 : 54
9= 32 <7 @= 532H8: ;C @8 832 ;24 ;: ;5& 7953= 92 ;55, 53;<56
L ### 732 92 8:3 D5 =3 <43< 8:;8 <3B;9534 92 8:3 3;<56 292383328:
D328@<6 ?3<3 92;43J@;83 8 : 54 98 ;55 92 < 3<=8<32H8:;, 38 9&
8:3 928= 2 ?:9D:8:3 <32D:?3<3 ;C @8 8 ;88;D> D @54 C3
;=D3<8;9234 92 H 4 897 3 8:3 49=8;2D3= ?3<3 2 8 = H<3;8 C@8 8:;8
8:3 ;<76 D @54 D 2D328<;83 2 ;26 <89 2 &8:3 5923 ?98:92 8:9A33
: @<=, @8 8 7 ;>3 8:9= <;D89D;C53 98 ?;= 23D3==;<6 &9<=856 8:;8
;=8;2 = =: @54 >33 92 D5 =3 8 @D:?98:8:3 3237 6 C6 73;2= &
:9= D;B;5<6 :3 :;4 J@983 32 @H:& <8:3 @< =3 ;24 =3D 2456
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=: <8 2 89D3, :3 ;29=:8< = ?3<3 2 ?;= ;5?;6= = =5 ?
;8 7;2 3@B<92H 8:;8 8:3 3G 3<97328 ,? @54 C3 ;4;2H3< @= 23
C@8 8:9= ?;= 8:3 256 ?;6 92 ?:9D:8:3 D: =32 =989 2 D @54
==9C56 C3 :354, :3 H< @24 ?;= 2 8 @2&;B @<;C53 98 D 2=9=834
&;5923 &H32853 :955= ;5 2H 8:3 = @8:C;2> &8:3 <9B3< U@3953=
?:9D:)D 7 7;2434 ;H 4 B93?B3< 8:3 < 5592H 5;92 ;D< ==?:9D:
8:3 <32D:;4 8 ;4B;2D3, 2 8:3 3G8<3 73 <9H:8 ?;= 8:3 8 ?2

* :3 <32D:;<76 D 2=9=834 &
2D36A= < =K
;@<9D3 ;8:93@A= 9B9=9 2 08?35B3 C;88;59 2=P ; ; ###
@=293<A= 9B9=9 2 039H:8 C;88;59 2=P , , , , N ##
<5 8A= 9B9=9 2 0=9G C;88;59 2=P,,,

&' @435;'D B3<34' C6';'5; 54' :9 8:3' 3<<'43' ;28;' ;<C;<; 1 1?C9D58UB3<:;99H='8:3' C<.' :32D3'8?'5 2H'<94H3='8:3':955='&' ;28;)U@983<9;';24' ;C3RJ' ;55;'3G8324'& <'= 7 '8?';24';':;5&' 9295;='929);)?355.j2;&>F5'5923.K'X8:9='= 89J2'&)2234A8:3,<9H:8' &'8:3' '=989 2.','J' 8:3'53&8' &'8:3.) ;C3R'-/5;5585';='&;<';='8:3'598853' 8 ?2',' &' ;=D;283 & @<'7953= 8:3' @24'9='53=='&;B @<;C53' 924334'98'9='&;9<56'&5;8';24'8:3'5923'9='9249D;834',7;9256'C6'8:3' U@3953='24'98=':<9H;89 2.D@8=')C3:924'?:9D:'8:3' ;29=:'D328<3' ?;='8'&<7 ,' < 7' ;=D;283'?3=8?;<4';='&;<';=' ;<;R 2; ;' 49=8;2D3' &'& @<'7953='<';'598853'B3< 8:3 =989 2'9='C3883<' 7;<>34';'=@<'&'8:3'932.;'43' <8D;6'D 792H'4 ?2'92';'H32853' =5 3';55';5 2H'8:3'=@8:3<2'C;2>'&'8:3'598853'U@3953=,' :3'D328<3' C38?332'8:3' ;C3R' ; ;';24' ;=D;283'?;=' CB9 @=56'8:C'?3;>' 928'92'8:3' =989 2';='8:3' 256' C=8;D53'8'8:3'32376A='4B;2D3' ?;='8:3'<9B3<'?:9D:'?;='&<4;C53'C6';55';<7=';8'3B3<6' 928';5 2H' 8:9='4;2H3< @='& @<'7953=,

:3'49=;=83<'?:9D:' ;=8;&9='?;='8'=@&&3<'7;6'C3';=D<9C34'8' 8?'79=8;>3='23' &'?:9D:'))\;='3289<356'(B98:92':9=' B2'D28<5' ?:953'8:3'8:3<';='4@3'8'8:3'=8@ 94986'&'A 39553,\' 98:'I ###' D;B;5<6'92':;24'8:3' 7 7;243<.92.D:93& @H:8'8':;B3'>2 ?2'&' 3B3<6'7 B37328'&'8:3' <32D:'&<'7;26':@9.='C3& 9.3'8:36'49*3?' 2 <'8'8:3' =989 2,' 8',? @54'8:32':;B3'C332'92':9=' ?3<'8' D 2D328<;83' 2'8: ='3' ;<8='&'8:3'5923'?:3<3'8:3';88;D>'?;=\;C @8' 8'C3'4359B3<34,' @8'92=83;4'&'=32492H'@8':9=':<=3'832'7953='8' 8:3'&< 28' ;=8;2='>3 8'8:37'?98:'8:3'92&;28<6.';24'8:3'&9<=8' 2 89D3'&'8:3';<;D:'&';223='?;='256'H9B32'?:32';8'2923'92' 8:3'7 <292H';'<3H97328'&' ;8:93<A='D;B;:6'<43'<9H:8'@'8'8:3' 8 ?2'&' @435;'4<9B92H'92'8:3' @8 =8='24'D;@=92H'H<3;8'D 2&99=9 2,' '8:3'=3D 24'D;@=3'&'49=;=83<'?3':;B3';5<3;46';4' DD;=9 2'8' ;55@43K' 2'8:3'29H:8'&'8:3'8?3286.=3D 24' A 39553':;4'0D 28<;<6' 8':9=' <43<=P'32D;7 34'2 <8:'&'8:3' C<,' 9=' ###'732'C3H;2

A' :3'8 ?2';24'8:3':955'@259>3'8:3'<3=8'&'8:3' =989 2';<3' 2'8:3' C;2>'&'8:3'U@3953=,

* 8'9='97 ==9C53'83';DJ@98' ;=8;&9='&'8:3'D:;<H3'&'D;<353==23==' 9<8599=' 928,' 653A='53883<'&'8:3'29H:8'&' B,'$$'9='D 2D5@=9B3'S T 8' 23'=5493<' :;='C332'53&8'8' C=3<B3'8:3'7 89 2='&'8:3'32376T<'8'D:3D>'8:3' <H<3==' &':9=';4B;2D3)4'H@;<4'D 7 7 2' 9D>38='3GD3 834'?599D:';<3' @=:34';'598853' @8=943'8:3'84?2,' 'D 2&3==''':;B3'2 8';'=:;43'&'4 @C8'8:;8'8:3'32376'?955' .;88;D>';8'4;6C<3;>';24'D 2&@=9 2'7@=8'2;8@<;556'32=@3'A 0 653A='D <<3= 2V 432D3'92'8:3' 3D <4' &&9D3P,' 8'9='=354 7',8:;8';' 79598;<6' <' :3D6'9='='3G;D856'&@5&95534,

?98:' 8:3' 7;2A=' 5;83<' D;9A33<K 98' ?;=' :3' ?:' '92' M' C38<;634' %9)=-:;7';8' ;< ==;';24'&534'C;D>'928';=;&386'92=83;4'&'=8 92H' 8';==9=8':9=';5593=,' 2'8:9=' DD;=9 2':3'5;6'&<'&@<:@<=7 89 2V 53==';?:953':3'?;8D:34'8:3' 9A32D:'&<7 92H'@'&<';'=3D 24';88;D>' 2'8:3'<7 6'&' 9A;H 2,' ?34'C6'8:3'I ###'4<;H 2=' 92':9=' &9& 28':3'7;43'2';8837 8'8'79;<D:' 2'8:3',;C3R';55;'8') A 39553A=';==9=8;2D3,' %<97;<3=8A=' D 24@D8'?;=';57 =8' 3J@;556' C;4K':3';=' &@<8:3<'&9A 7'8:3'=D323' &'&9H:892H';24'D @54'2 8' 59>3' ;' 32;'='33'8:3'&9354C@8'98'9=' =@&&9D9328'8';=;6'8:;8':3' <3D39B34' ;=8;2 =A' <43<'8'7;9AD:' 2' ;=D;283';8'2 2';24'8:;8' :3'494'2 8'<3;D:'8:;8' 5;D3 & @<'7953=' 49=8;28 8955 4@=>,

:3' 7 7;243<.92.D:93&':97=35&';=' 7 =8'@25@D>6K':3'=8;<834' &9';=D;283';C @8'2 2'92832492H'8'&<D3':9=' 49B9=9 2;5'H323<;5=' 8'4<;?'23;<'8:3'C;8853.&9354,' @8';=':3'?;=' D< ==92H'8:3'H;' C38?332' A 39553';24' ;' 32;':3'?;=' =9H:834',C6'=73' <32D:' D;B;5<6'?:' '?3<3'D;@89 @=56' @=:92H'& <?;<4'8:<@H:'8:3'@2V DD@ 934'H9) @24,' 3';24':9=' =8;&&?3<3'D:;=34'&;<'8'8:3'<3;<'C6' 8:9=' <3D 22 98<92H' ;<86';24' 256'=:' >'8:37' &8* C6'<9492H':;<4' ;24'=D;883<92H';7 2H'8:3' 59B3'H< B3=,' 2;C53'8'<3;D:' ;=D;283' :3';=' <38@<292H'8 ?;<4=' @435;'?:32' :3'<3D39B34';':;=86'2 83' &< 7'%323<;5' D;'8'8:3'3&&3D8'8:;8'8:3'<9H:8'?92H' &'8:3';<76' :;4'C332'C< >32';24'8:3':39H:8=' &' ;28;' ;9.C;<;'5 =8,

:32':9=' 8:<33'C35;834'49B9=9 2=':;4';3;<34' ;223=':;4' 4<;?2'@':9=;';<76'92'8?'5923=';24'&5@2H'8:3'C@5>' &'98' ;H;92=8' 8:3' <;H 23=3'53;B92H' 256' 5C3<8A=';24' 9H3 2A=' 4<;H 2=';24' 8:3'=92H53'49B9=9 2' &' ;H<;2H3'8'5 >';&83<,' ;' 32;';24'8:3'<3=8' &'8:3' 9A76' &' 24;5@=9;,

2=83;4' &'=32492H'& <?;<4'&<3=:'8< =' ;223='C< @H:8'@'8' 8:3'D:;<H3'& <';'=3D 24'8973'8:3'<3H97328=' &' ;@<9D3' ;8:93@' ;24' 9A5 8,' 3:924'8:3'5;883<' @=293<'43 5 634'C3:924'8:3' & <73<'%<;24X3;2'C@8'2398:3<' &'8:3=3'49B9=9 2='; '98'8@<234'@8' ?;=8'&9<3';':=:8'<'8'5 =3A';'7;2,' :953' <5 8'?98:':9=' =9G' C;88;59 2=' 2D3'7 <3';88;D>34'8:3':39H:8=';C B3'8:3'D986' ;@<9D3' ;8:93@'?98:':9=' 8?35B3';8837 834'C 8:'8' @=:'C;D>' A 39553' ;24'8'8@<2':9=&5;2>'C6';6' &'8:3' ;C3R' ;55;,' &83<';'H:<8' C@8'?355.D 283=834'=8<@HH53'C 8:'8:3=3';88;D>=' =@DD33434,' <5 8' 8:@H:':9=53;492H'C<9H;43'=@&&3<34':3;B956' C8;9234',;'5 4H37328' 2'8 ' &'8:3' 3<<' 43' ;28;' ;<C;9A;'C6' @=:92H';'C;88;59 2' @';'5;83<;5'<;B923'?:9D:';4'C332'53&8'@2?;8D:34' 2';DD @28' &' 98=' 49&&9D@586,' .8:3<=' & 55 ?34';24' D;A=' 49B9=9 2'C< >3' @<34

4 ?2' 8:3' :955' 928 ' @435;' ;24' &534' ;?;6' C6' 8:3' ;<;H ==;' < ;4,' 57 =8';8' 8:3'=;73' 7 7328' A 39553A=' 8< ='?3<3' C3;832' &&*' 8:3' ;C3R ' ;55;'C6' ;@<9D3' ;8:93@'?:' ';4' =@DD33434' 92' =59 92H' ;' C;88;59 2' ;24' ;' D;B;596' <3H97328' < @24' 8:39<' 53&8' &5;2>' 2' 8:3' =943' &' 8:3' &;8;5' H; ,' 3392H' 8:3' 5923' &' 8:3' <;H 23=3' <33592H' C;D>' %323<;5' 3&3CB<3. 3=2 @3883='8 '?: 7' ;223=' :;4' H9B32' 8:3' D:93&' D 7 7;24' &' :9=' D;B;5<6 'D:;<H34' ?98:)'8:<33' <3H97328=' &' ;8:93<A=' 49B9=9 2' ;8' 8:3' B3 ' D328<3' &' 8:3' : =8953' ;<76,' 3' C@<=8' 8:< @H:')C38?332' A 39553' ;24' ;928' ;<D:A=' 8< ='; 24' 8:32' ?:33592H' @8?;<4' ;88;D>34' C 8:' 92' &5;2>,' :9=' ;==;@58' ?;=' 43D9=9B3,' :3'?: 53' 7;==' 49= 3<=34';7 2H' 8:3' 59B3' H< B3='99 9H;.' 89 2.D@8='; 24' =8 23' &32D3=' ?:9D:' D B3<' 8:3' 5;92' 8 ' 8:3' = @8:' &' @435;,' ' &3?'C;88;59 2=' >3 8' 8:39<' <;2>=' ;24' & <7 34';' = <8' &' <3;9H@;9A4 ' C@8' 8:3' 7;92' ;<8' &' D;A=' ;928' ;<D:A=' ;24' A 39553A=' 53B93=' &534' =8<;9H:8' C3& <3' 8:3 7 ' 8955' 8:3' 4@=>' &355 ' ;24' &;<' 928 ' 8:3' 29H:8,' 73' &'8:3 7 ' H 8' 8 ' ;<;H ==;' 23G8' 4;6 '8: @H:' 8:3' 49=8;2D3' ?;=' B3<' &9&86' 7953=,

3;2?:953' ;' 32;A=' &@8953' 3<;89 2=' 92' &< 28' &' ;=D;283' :;4' H 23' 95' ;55' 8:< @H:' 8:3' ;&83<2 2,' 3' :;4';8' &9<=8' 2 8:92H' C@8' D;B;6' 92' &< 28' &' :97',C@8';C @8' 8:<33' AD5 D>' ;H<;2H3A=' 49B9=9 2 ' ?:9D:' :;4' C332' 8:3' 5;=8' 8 ' ;<<9B3' 2' 8:3' &9354' &' ;55' 8:3' <32D:' ;<76 ' ; 3;<34' 92' :9=' 49<3D89 2,' 8=' 53;492H' C<9H;43' 7;<D:34' 928 ' 8:3' H; ' ?:33534' 8 ' 98=' <9H:8 ' ;24' 4< B3' @8' &' <R;283' 8:3' 896 ' 9= 5;834' C;88;59 2=' ?:9D:' ;' 32;' :;4' 5;D34' 8:3<3' 92' 8:3' 7 <292H,' :36' 7;43' ;' H;55;28' <3=9=8;2D3' ' C@8' :;4' 8 ' 69354' 8 ' =@ 3<9 <' 2@7C3<=' ;24' 8 ' &;55' C;D>' 99' 8:3' 7;92' C 46' ;8' ;=D;283' *,' 3<3' 8:36' & @24' 2 8*' 256' ;' 32;' C@8';5= ' %<97;<3=8 ' ;24' /955;<93R A=' 79G34' C<9H;43 ' & <' 8:3=3' &&9D3<=' :;4' ;8' 5;=8' 439H234' 8 ' C36' ;=8;2 =)' <43<=' ;24' 8 ' D5 =3' 92' 8 ' 8:3' <9H:8,' :3<3' ?;=' 2 ?' ;2' 97 =92H' 7;==' &' 8< ='D 553D834' 92' 8:9=' J@;<83<' ;8' 53;=8' M ###' & 8' ;24' M ###' : <=3 ' C@8' 8:36' ;55 ?34' 8:37=35B3=' 8 ' C3' TD 28;9234A' C6' ;H<;2H3A=' =92H53' 49B9=9 2' ;24' 9H3 2A=' 4<;H 2=,' 5C3<8 ' ?98:' 8:3' <3=8' &' 8:3' D;B;5<6 ' :;4' <94432' 8:< @H:' 8:3' H; ' ;24' H 23' &&' 92' @<=@98' &' 8:3' <;H 23=3,' :3' <37;9292H' :@<' &' 4;659H:8

* %<;::7' ?9823==34' 8:9=' ;24' <3 <8=' 92' :9=' '"' 0 ,' $M P' 8:;8' T' 8:3' 8? ' <3H97328=' 8:;8' :;4' C332' =328' 4 ?2' 928 ' 8:3' 5;92' C3:;B34' @2D 7 7 256' ?355,A

* ';H<33' ?98:' D:3 353<';24' 8:3' ;29=:' ?9823==3=' 92' :5492H' 8:;8' 2' 8:9=' =943' 8:3' <32D:' 494' B3<6' 598853' S' 8:39<' H<3;8' ;4B;2D3' ;=' D:3 353<' =;6='T' 9=8' 2@<' @ 389@& <735' @24' ?3983<' 29D:8=,A

?;= = 328 92 &@8953 =>9<79=:92H ?98: ;H<;2H3 ;24 ;&83< 4;<>
;5*32;;24 %<97;<3=8<389<34@277 53=834 8 <X;C6 8:3<;4
?:9D:=>99)8=8:3& 8 &8:3 93<<;43 2D;6 ;):36?3<3 256
49=8@<C34 C6 ; ;29D D;@=34 C6 8:3 C5 72H@ &8:3 <3=39.B3
;9277@2989 2 &8:3 <76 &8:3 328<93, 73 &8:38< =8 >
8:3 3G 5 =9 2 &<;=@4432 49=D:;<H3 &<32D:;<89553<6C< >3
8:39<<;2>=;24 ?3<3 ?98:49&&9D@586<3;==377C534,

1 8 9=97 ==9C53 8 =3;> 8 =8< 2H56 &8:=:;73&995=5;D>23==
;24 89794986 &;32;;24 :9= D 553;H@3=, &8:36 :;4 C332
8<934 &<D ?;<49D3;24 =:8;&83<8:37;223< &47 9<;5 62H
8:36 ?@54 2 8:;B3 <3D39B34 7 <3 8:;2 8:39<,43=39)8=,, :;8
$# ### 732 92D5@492H 8:3 H9.3;83< ;9.8 &8:3 B9D8 <= &;6532
=:@54;==9=8 &< 7;49=8;2D3 &&@<7953= 256;8 8:3<@8 &
8:39<D 7<;43= &8:3 <76 &9.;H 2?;=8:3 7 =8 43 5 7C53
92D94328 &;55 8:9=@2:; 6D;7 ;9H2,

< 7 8:3;=8 @2492H ?;6 92 ?:9D:8:3 24;5@=9;2;9*76 :;4
C332 79=:;24534)98 <3=@5834 8:;8 <;D89D;556 2 5 == $##>95534
;24 ?@2434 ;8 8:3 7 =8 ?;= =@&&3<34 92 8:9= J@;<83<;24 8:3
8< = '7;<D:34 &&?98:8:39<;<89553<6;24?;H 2=;&83< C5 ?92H
@ 8:39<<3=3<B3 ;77@2989 2 ;24 ;C;24 292H 8:39<:3;B6C;HH;H3
92 8:39<D;7 =*, :3 <;H 23=3::;4. &D @<=3 &;<34 B3<6 49&V
&3<32856, :36 5 =8 8?3286.=9G H97= ;<32856 ;55 8:;8 8:36:;4
C< @H:8 8 8:3)&9354 B3< ###2= 23<=;24 ;8 53;=8 I ###
>95534;24? @2434 9 59;8 8:3D;=@;5893=?3<3 2 8 7 <3 2@73< @=
?;= 4@3 8 8:3 &;D8 8:;8 8:3 5;92 8 8:3 = @8:& @435;?;=
D B3<34 ?98: 59B3.H< B3=;24 9<<9H;89 2.D@8=?:9D:D:3D>34 8:3
9 32D:D;B;C6 ;24 &;D9598;834 8:3 &59H:8 &8:3 &@H989B3=,
;223='98 9= D53;<'494 2 8 3289<356 &@5&95 ; 53 2 = 3G 3D8;89 2=,
3 494 2 8 8;>3 &@55 ;4B;28;H3 &8:3 H;C38?332 A 39553;24
;32;;24 ?;=834 7@D:& <D3 92 &< 28;5 ;88;D>= ?:9D:79H:8
:;B3 C332 ;B 9434, &:3 :;4 8:<@=8 8? 49(;=9 2= ;24 ;55 :9=
,:<=3 C38?332 8:3 &9A;D89 2= &8:3 ;29=:;<76 C3& <3 <43<92H
8:3 =3D 24 ;88;D> &;75D3 ;8:93@;24 <5 8 8:3 B9D8 <6
? @54 :;B3 C332 &;< 7 <3 43D9=9B3 ;24 53== D =856, :3,5 == &

= :3 I ### 732 & ;<8; X;5A= 8< = ?:9D:::;4 C332 438;D:34 8 ?;8D:
36 92 8:3 49<3D89 2 &H<34;?3<3 D@8 &5 &< 7 8:3 <3=8 &8:3 226 &8:
328<3 ;24 <;2 H<3;8 <9=>=, @8 8:36 @589 7;8356 3=D; 34 ;24 <3X 9234 8:3
7;92 C 46,

256 ;928 ;<D:A= D;=@;5893= ;<3 <3=3<B34, , 5936;7 @2834 8 I$M,
D;;24 A 39553 7@=8:;B3 =@&&3<34 92 < <89 2,

8:3' I<4' < =' ?;=' LL' >95534';24' I' ? @2434'5 8:;8' &' ;H<;2H3A=$ 49B9=9 2' ;24' 8:3' 4<;H 2=' :;=' 2 8' C332' <3=3<B34' C48' D;2' :;B3' C332' C@8'=9 ; < C;C56'53==' 8:;2' ##' 92' ;55 8: @H:' ;H<;2H3' :97=35&' <3D39B34' ;' =3B3<3' :@<8' 92' 8:3' ;<7,' :3' 256,'<3H97328' 8:;8' =@&&3<34' :3;B956' ?;=' 8:3' 8:' &' <5 8A=' 49B9=9 2' ?:9D:' 92' 8@<292H' D;' &&' 8:3' 3<<' 43' ;28;' ;<C;<;' 5 =8' I#I' >95534' ;24' ? @2434',7 <3' 8:;2' :;5&' 8:3'"8 8;5'TD;=@;5893=' &' 8:3' I<4' < =,

;223=' :;4' D;<<934' @8' 9249&&3<32856' ?355' 8:3' ;<8' &' 8:3' 7V 3< <A=' H<3;8' 5;2' 8:;8' :;4' C332' 328<@=834' 8' :97$ C@8' 8:9=' ;=' ?3' :;B3' =332' ?;=' 256' :;5&' &' 8:3' H;73,' :32' ;=8;2 =' 24' 8:3,' <;H 23=3' ?3<3' < @834' 8:36' @H:8' 8' :;B3' & @24' ;<=:;5' 36' ;8' 8:39<' C;D>=' 9283<D3 892H' 8:39<' <38<3;8' 2' ;<;H ==;' <' ;49A94,' =' ;' 7;883<' &' &;D8' :3' ?;=' 7 <3' 8:;2' &9&86' 7953=' ;?;6' 2' 8:3' 4;6' &' 8:3' C;8853' ;24' ;<<9B34' ?98:' ;' 8;<4923==' ?:9D:' 7;43' :9=' &5;2>92H' 7;<D:' 3289<356' &@8953,' :3' <43<=' &' <' :97)' 8' 7;<D:' &< 7)' 9A;24;' 2' <9;' ;24' ;<;R 2;' :;4' C332' 9==@34' 2' B37V C3<' M' ;24' :3' :;4' C332' ?;<234' 8:;8' ;223=' ? @54' 4359B3<' :9=' C5 ?' 2' 8:3' 8?3286.=3D 24,' @8' 36' 494' 2 8' <3D39B3' :9=' 92=8<@DV 89 2=' 8955' 8:3' 292383328:' ;24' 256' =38' @8' 2' 8:3' 8?328938:,' :32' 2D3' :3' ?;=' @ 2' 8:3' 7 B3' :3' 7;43' 8<37324 @=' 7;<D:3=' & <' 2' 8:3' 8?3286.&9<=8' :3' :;4' <3;D:34' 57;R;2' 7 <3' 8:;2' =9G86' 7953=' &< 7' :9=' =8;<892H. 928K' C6' 4@=>' 2' 8:3' 8?3286.=3D 24' :3' :;4' @=:34' 2' 8' <9;' ?:3<3' :3' :;5834' & <' & <86.39H:8' : @<=' 2' ;DD @28' &' 8:3' @883<' 3G:;@=89 2' &':9=' 8< =,' 3' :;4' @=:34' 8:37' & <?;<4' 2' 53==' 8:;2' =3B3286.39H:8' 7953=' 92' 8:<33' 4;6=' ;' <;83' ?:9D:' D;22 8' C3' >3 8' @ ,' 32D3' :3' ?;=' C59H34' 8' 538' 8:37' = 324' 8:3' 8?3286.8:9<4' ;24' 8?3286.& @<8:' 92' <9;K' ;8' 4;?2' 2' 8:3' 8?3286.&9&8:' 8:36' =38' @8' ;H;92' ;24' 3G3D@834' ;2 8:3<' 83<<9C53' 7;<D:,' 8' 9=' 8:9<86' 7953=' &< 7' <9;' 8' H<3D5;X' 92' 8:3' :3;<8' &' 8:3' 93<<;' 43' 2D;6' ?:3<3' 8:3' N8:' < =' =53 8' 2' 8:;8' 29H:8' ;24' 3B39.6' & 8' &' 8:3' ?;6' ?;=' B3<' B955;92 @=' 7 @28;92' < ;4=,' 32D3' 36' 256' <3;D:34' ;<;R 2;' 3;<56' 2' 8:3' 8?3286.=9G8:' 8:<33' 4;6=' ;&83<' 8:3' C;8853' 638' 98' D;22 8' C3' =;94' 8:;8' :3' :;4' C332' =5 ?' K' :3' :;4' D B3<34' $' 7953=' 92' =9G' ;24';' :;5&' 4;6=' 3B32' ?:32' 8:3' :;58' ;8' <9;' 9=' 92D5@434,' :9=' 9=' B3<6' &;9<' 7;<D:92H' & <' 92&;28<6' ?:32' 8:3' 49&&9D@5893=' &' 8:3' D @28<6' ;<3' D 2=943<34,' ; 53 2.@2H323< @=56';=D<9C34' 8:3' 3=D;3' &' ;=8;2 =' 8' 8:3' &;D8' 8:;8' T' 36' :;4';55 ?34' :97=35&'8' C3' 97 =34' @ 2' C6' 8:3' ;29;<4='

; 24 <3=834 & < 8 : 3 8 ? 3286.=3D 24 ; 24 8 ? 3286.8 : 9<4 ; 8 <9; 'C3D; @=3 : 3 D59 =3 8&& 9 7 ; H923 8 : ; 8 8 : 3 3237 6 : ; 4 M# ### 732 ' ; 24 8 : 3< & 5593=, & : 3 : ; 4 <3; D : 34 H<34 ; 2 8 : 3 8 ? 3286.8 : 9<4 ; DD <492H 8 ' 7 6 <43<= ' 2 8, ; ' 7 ; 2 ? @54 : ; B3 3=D; 34 , @8 \ ; = ; <= : ; 5 - @<4 ; 2 B3<6 89 956 9.37 ; 9.>= 92 : 9= ' T ; 5D@5 ; 892H 8 : 3 49=V 8 ; 2D3 &< 7 ' <; 24 ; ' 8 ' ; <; R 2 ; ' B9 ; ' <9; ' 23 3 ; =956 =33= 8 : ; 8 3B32 9& 36 : ; 4 H9B32 2 ' <3=8 8 ' : 9= 8< = T98 ? @54 : ; B3 C332 97V ==9C53 & < : 97 8 ' ; 9.<9B3 C3& <3 8 : 3 ; &83<2 2 &' 8 : 3 8 ? 3286.& @<8 : ' 8 : ; 8 9= 8 ' =; 6 ' 8 ? 3286.& @< : @9*= ; &83< 8 : 3 C ; 8853, 8 9= 2 8 : 3 ? : ' =: @54 C3 <3 < ; D : 34 ' C@8 8 : 3 7 3< < ' ? : ' @H : 8 8 ' : ; B3 =8 ; 9.834 : 97 ' &< 7 ' <; 24 ; ' 8 ? ' 4 ; 6= 3 ; <593<

5924 ; 479<3<= & 2 ; ; <83 : ; B3 3243 ; B @<34 8 ' 7 ; >3 @8 ' D ; =3 ; H ; 92=8 36 ' C6 ; DD@=92H : 97 ' & : ; B92H =8 34 ; 8 <9; ' & < 8 : <33 4 ; 6= 92 <43< 8 ' 9 ; H3 98 ? : 9D : ' : 3 494 2 8 ' 8 : @H : ' : 3 7 ; 43 ; ' <3J@9=989 2 &' =: 3= ; 24 D5 8 : ' & < H<3 ; 8.D ; 8= &< 7 ' 8 : 3 7@29D9 ; 5986, & : 3 9= <3 ; 556 8 ' C5 ; 73 ' 98 9= <; 8 : 3< & < : ; B92H ? <>34 : 9= 732 = ' : ; <4 2 8 : 3 8 ? 328938 : ' 8 ' 8 : 3 8 ? 3286.=3D 24 8 : ; 8 8 : 36)3<3 2 8 &98 8 ' 7 ; <D : ' 2 8 : 3 8 ? 3286.8 : 9<4K : 3 : ; 4 8 ; >32 8 : 37 ' =3B3286.39H : 8 7953= 2 8 : =3 8 : <33 4 ; 6= ' B98 : ' 8 : 3 2 ; 8@<; 5 <3=@58 8 : ; 8 8 : 36 ?3<3 43 ; 4 C3 ; 8, &' : 3 : ; 4 D 2832834 997=35& ?98 : ' 4 92H =9G8332 < 39H : 8332 7953= ; ' 4 ; 6 ' : 3 ? @54 : ; B3 <3 ; D : 34 <9; ' 2 8 : 3 8 ? 3286.8599<4 ' C@8 : 9= 732 ? @54 : ; B3 C332 D 7V ; <; 89B356 &<3= : ' ; 24 D @54 : ; B3 7 B34 2 23G8 7 <292H, B32 8 : 32 : 3 ? @54 : ; B3 C332 5 ; 83 & < 8 : 3 C ; 8853 ' ; = - @<4J2 D53 ; <56 = : ?=K 8 : 3 &; D8 ? ; = 8 : ; 8 8 : 3 7 3< < ; =>34 ; 2 97 ==9C95986 &' : 97 ' ? : 32 : 3 3G 3D834 : 97 ' 8 ' D B3< $ ' 7953= 92 & @< 4 ; 6= ' ?98 : ' ; <89553<6 ; 24 C ; HH ; H3 ' ; 24 ; ' 49&&9D@58 7 @28 ; 92 <; 2H3 8 ' D597C*)*,

3 ; 2 ? : 953 8 : 3 < @834 & <D3= &' A 39553 ' D ; ' ; 24 ; 928 ; <D : ' X 9234 ; 8 ; 32 ' ; 24 <38<3 ; 834 ; 5 2H 8 : 3 : 9H : .< ; 4 8 ' ; <; H ==; ' ; DD 7 ; 2934 & < ; <8 &' 8 : 3 ? ; 6 C6 ; =8 ; 2 =S ? : 953 8 : =3 &' ; ' 3&9 ; ' %<97 ; <3=8 ' ; 24 / 9 ; <93R ' 7 ; <D : 34 C6 <X ; ' 8 ' ; ' 57@29 ; ' 2 8 : 3 ! ; 5 2 ' ? : 3<3 8 : 39< %323<; 5.92.D : 93& X 9234 8 : 37 ' ; 24 49<3D834 8 : 37 ' 8 ' 8 ; >3 8 : 3 < ; 4 8 ' ; 4<94 ' 2 8 8 : ; 8 ? : 9D : ' 534 8 ' 8 : 3) <; H 23=3 D ; 98 ; 5, 2 8 : 3 29H : 8 &' 8 : 3 8 ? 3286.&9&8 : ' 8 : 3

' ; 53 2 8 ' - =3 : ' ; 53 2 ' &< 7 ' <; 24 ; ' B, ' $ ' 3 , &' * &$
L MP,
* - @<4 ; 2= # $; " $,
' 36= 7 ; <D : ' ; 24 98= 49&&9D@5893= D ; 2 C3 =8@4934 92 8 : 3 # ' &' DD ; ' 8 : 32 ; ' D ; 8 ; 92 92 8 : 3 $24 @== ; <= ' ? : ' = : ; <34 8 : 9=, 7 ; <D : ' ?98 : ' 8 : 3 N8 : ' < =,

<<;6 & 24;5@=9; 7 92@= 8:3H<3;83< ;<8 &8:3?33>= & D;A=
49B9=9 2(?;= D 2D328<;834 ;8 ;5;8;6@4 2 8 7@D: <34@D34 92
2@ 9C3<= C@8 ;5<3;46 =@&&3<92H&< 7 :@2H3< ;55 8:39<=8 <3= :;B92H
C332 5 =8 ;8 ;=D;283 ;24 ;<;R 2; ;24 92D59234 8 C3 7@892 @=,
 :3 92D<349C53 7 9=7 ;2;H3 7 328 ;8 @435; ?;= @8 4 ?2 8 8<3;D:3<6
;24 8:3 7 32 ?39)3 7@D: 92D59234 8 49= C36 8:39< D:93&=, 8 ?;=
;8 8:9= @2:; 6 7 7 328 8:;8 ;=8;&9 = <3D39B34 ; 49= ;8D: &< 7
8:3 328<;5 -@28; 4;834 B3 7 C3< $?:9D: ;@8: <9R34 :9 7 8
92D < <;83 8:3 49B9=9 2= & A 7553 ;24 ;928 ;<D: ?8: 8:3
;<7 6 & 24;5@=9; 53;B92H 256 8:3. 9A;H 23=3 @243< 8:3 D 28< 5
& ;5;& G, :9= <43< 9&H9B32 ; 7 28: 3;<593< ? @54 :;B3 =;B34
;2 32 <7 @= ;7 @28 & ?;2H592H ;24 79=7;2;H3 7 328, @8 98
?;= 2 ? 8 5;83$ 8:3=3 49B9=9 2= :;4 <389<34 2 ;<;H ==; ;24
8:3 3237 6 :;B92H 9&983< =34 C38?332 8:37 ;24 ;=8;&9 = 8:3
;@8: <9R;89 2 <37;9234 3<& <D3 ; 43;4 53883<,
 ;223= :;4 49<3D834 ;@<9D3 ;8:93@ ?98: 8:3 49B9=9 2=A &
;H<;2H3 ;24 @=293< 8 & 55 ? 8:3 24;5@=9;2= C6 <X; ?:953
<5 8 ;24 %<;24X3;2 @<=@34 8:3 <;H 23=3 2 8:3 < ;4 &
;5532, :3 D:;=3 4 3b 2 8 =33 7 8 :;B3 C332 B3<6 : 856 @<H34
C@8 2 3;D: < ;4 ; D3<8;92 2@7 C3< & =8<;HH53<= ?3<3 9D>34 @ ,
36 <3;D:92H <X; 2 8:3 8?3286.=9G8: ?98: 8:3 :3;4 & :9=
D 5@7 2 & @24 :9 7 =35& 92 8:3 <3;9. & ;@<9D3 ;8:93@ ;24
D 7 7 98834 8 8:3 @<=@98 & ;=8;&9 =, :39< B;2H@;<4 <3;D:34
;5;8;6@4 2 8:3 8?X=286.=3B328: ;24 53;<28 8:;8 8:3 <7 6 &
8:3 328<3 :;4 3B;D@;834 8:;8 D986 2 8:3=;7 3 7 <292H ;24 ?;=
<3==92H 8 ?;<4= ;4<94 ?98: 8:3 9283289 2 & 8;>92H ;<8 92
8:3 43&32D3 &8:3 D; 98;5,
 36 8;>92H ?98: :97 ;H<;2H3A= 92&;28<6 ;24 9H3 2A= ;24 5V
C3<8A= D;B;5<6 &< 7 8:3 8< = ?:9D: & @H:8 ;8 @435; ;24 ;4492H
8:37 8 8:3 8? 49B9=9 2= & ;<D:;24 ;24 3== 553= ?:9D: :;4
& <734 :9= 8@<292H D 5@72 7.H34 8:3 @<=@98 ;= &;=8 ;= :3 ?;=
;C53, ?9D3 :3 D;73 @ ?98: 8:3 ;29=:;<76$ 2 3;D: DD;=9 2
;=8;&9 = =;D<9&9D34 :9= <3;<H@;<4 ?:9D: 7;43 ;5 2H =8;24 ;24
?;= 83<<9C56 7;9434 ?:953 :3 @=:34 ;:3;4 ?98: :9= 7;92 C 46,
8 8:9= D =8 8:3 ;<76 ?;= =;B34 C@8 98 ;<<9B34 92 3? ;=8953
:;5& =8;<B34 ;24 3G:;@=834 ;24 ;57 =8 ;= 97@D: 437 <;59R34 ;=
9& 98 :;4 C332 C3;832 92 ; 98D:34 C;8853, &3?4;6= 5;83<
7;26 &8:3 C;88;59 2= C@<=8 928 32 7@8926 ?:32 8:36 ?3<3
<43<34 8 <389<3 928 8:3 7 @28;92= & @32D;, @8 ;8 53;=8
A 256 N## &8:37 ?98: D;:97=35& 55 ?34 ;=8;&9 =,

8:36 : ;4 3=D; 34 &< 7 36 C6 <; 94 7 ;<D:92H ;24 =8955 <3=3<B34 8:3)& <7 ;24 =37C5;2D3 &;2 ;<76,

3;99):953 ; 53 2 2 :9= =943 : ;4 C3H@2 8 3<;83 ;H;92=8 ;49A94 ?98: ; = 334 ;24 =@<323== &=8< >3 8: ;8 7 ;43 &@8953 3B3<6 ;8837 8 &8:3 ;29;<4= 8 9283<B323 C38?332 :97 ;24 :9= H ;5, :3 7 7328 8:;8 8:3 23?= & @435;<3;D:34 :97 0 B37C3< $NP :3 : ;4 :@<534 :9= 7 ;92 C 46 @ 2 8:3 D; 98;5 1;24 ?98:92 39H:8 4;6= 98 ?;= 92 :9= : ;24=, :3 7 ;<D: &8:3 ;9926 & 24;5@=9;8 D B3< ;4<94 ?;= 08: @H: ;=8;2 = D @54 2 8 >2 ?98P @=353== &< 7 8:3 &9<=8, 6 :@<<6912H 8 8:3 ;94 &8:3 -@28; 8:< @H: 9H@32R; ;24 %@;4;5;X;<; : 3 ?;= 73<356 3G =92H :97=35&& <; =3D 24 89 73 8 43=8<@D89 2, 9= 8< = ?3<3 43=89234 84 3=D; 3 &< 7 8:3 3<95 92 3? ;=8953 C6 ;=8< >3 & <8@23 X@=8 ;= 2 8;C53 ;= 8:;8 ?:9D: : ;4 =;B34 8:37 &9) 7 C392H D@8 && 2 8:3 4;6 ;&83< @435;, @8 :3 73;2?:953 ?;= =3 ;<;834 &< 7 :9= 8< = & < 2 ;<<9B92H ;8 9H@32R;: 3 ?;= 738 C6 ;2 8:3< 49= ;8D: &< 7 8:3 -@28; ?:9D: <3593B34 :97 &8:3 D 7 7 ;24 &8:3 ;<76 &8:3 328<3 ;24 C;43 :97 : ;=832 8 3;4 U@;<839*= ?:3<3 :9= ;94 ?;= <3J@9<34 C6 8:3 328<;5 7 7 98833 & < ;<, ;2492H B3< 8:3 8< = 8 8:3 92D; ;C53 ; 32; ;=8;95 = : ;=83234 = @8:?;<4 92 =3;<D: &8:3 -@28; ?: =3 ?:3<3;C @8= 92 8: =3 4;6= &&59H:8 ;24 D 2&@=9 2 98 ?;= 2 8 3;=6 8 &924,

&' @435;'8:3' 7 3<'<=;?'8:;8'98'?;=' 8973'8' 7 B3,' 2'8:3'
8?3:86.39H:8:':3'7;<D:34' 2' ;4<94'C6'8:3'49<3D8':9H:.< ;4'8:;8'
D< ==3='8:3'5 2H';24'43= 5;83' ;==' &'8:3' 7 =93<<;,
3;2?:953'8:3' ;29;<4='::;4' C332' H<;2834' 29238332' 4;6='=92D3'
8:3'< @8' &'%;7 2;5' 92' ?:9D:'8' <H;29R3'8:3'43&32D3' &'8:39<'
D; 98;5 ;'= ;D3'92'?:9D:'= 738:92H'79H:8':;B3'C332'4 23':;4'
8:39<' <3= @<D3='C332' < 3<56' ; 5934' ;24'8:39<' D 7737 43<'
,D; ;C53,' 8'9='8<@3'8:;8'3B32'9&'3B3<6';B;95;C53'7;2':;4'C332'
':@2A934'8' ;49A94'8:3' 7 3<'<'7@=8'=8955':;B3'<3B;9534K':9='
2@7C38'?3<3'8 'B3<?:357 92H'8'C3'?98:=8 4,' @8'8:9='&;D8'
4 3='2 8'3GD@='8:3'-@28;'&'<'2 8':;B92H'4 23'8:39<'C3=8'8':54'
:97'C;D>,' 8'9='D53;'<8:;8'?:32'8:3'23?='&'%;7 2;5'<3;D:34'
8:37'2'8:3'7 <292H'&'8:3'8?35&8:'<43<='=:@54':;B3'C332'=328'
8';=8;&9 ='8'&;55'C;D>' 2'8:3'D; 98;5'C6'?;6'&' ;5;8;6@4';24'
9H@32R;'53;B92H' ;5;& G';24'8:3' <;H 23=3'8'T'D 28;92'A' 2D36'
;='5 2H';='79H:8'C3' ==9C53,' 8:92H' &'8:3'>924'?;='4 23';24'
8:3';<76' &'8:3) 328<3 ;='?3':;B3'=332 ?;='=8955';8' @435;' 2'
8:3'8?3286.8:9<4,' :3<3'?;=';2 8:3<';24';'=8955'7 <3'97 <8;28'
= 7AD3' &';94';B;95;C53K'8:3' 2H59=:';<76'NA 7' <8@H;5':;4'C3H7'
8';<<9B3';8' ;5;7;2D;' 2' B37C3<' IK'98='<3;<H@;<4':;4'<3;D:34'
8:;8'D986'832'4;6=5;83<,' 98:' 9<' - :2' <3)A='43=9H2=';24'
5;2=' &'D;7 ;9H2'?3'=:;55':;B3'8'43;5'92';2 8:3<'D:; 83<,' 8'
7@=8'=@&&9D3'92'8:9=' 5;D3'8'=;6'8:;8':3'?;='2 ?'?98:92' #'7953='
&' ;49)94'C6';'H 4':9H:.< ;4K'8:3'=@C=949;<6'D 5@72'@243<'
3'?:9D:':;4'?98:'98'23;<56'8:3'?: 53' &'8:3' <989=:';<89553<6'
?;='8' ;5;B3<;'=8955'23;<3<'8'8:3'D; 98;5,' &'8:3'-@28;':;4'
<3;59R34';24'&<;2>56';B ?34'8:3' 3<95=' &'8:3'=98@;89 2'8:3<3'D;2'
C3'2'4 @C8'8:;8'8:36'? @54':;B3'@=34'3B3<6'3&& <8'8'C<92H' <3'
8'8:3'43&32D3' &' ;4<94,' 3B32' <'39H:8'H 4'7;<D:3='D @54'
:;B3'D;<<934':97'8:98:3<,' @8'8:3' ;29;<4='494'2 8:92H' &'8:3'
>924K'<3&@=92H'8'<3;59R3'8:3'9779232D3' &'8:3'4;2H3<'8:36'<3.['
&3<<34'8'7)H3' 2' 9*,' <3<3'8:3'23?56';<<9B34' <989=:'7929=83<';'
=D:373&'<'8:3'@29 2' &' <3)*='&<D3='?98:' 5;>3T=C< >32'T 9A926'
&'8:3' 3&8 A,' :36' =@HH3=834'8:;8' 3A=' 49B9=9 2' 79H:8'C3

' <,' <3<3'8'%323<;5' <3'0&< 7';2X@3R' B,'$ PS'D 7 ;<3'8:3'53883<'
&' ;<892' 43'%;<;6'0=3D<38;<6' &'8:3'-@28;'P'8' <,' <3<3'4;834' B,'$LS'
T' &'8:3' 2H59=:'8< ='&<7';'X@2D89 2'?98:'8:3' <76' &'8:3' 3&8'?3'D 7V
=3';'&<794;C53'C 46' &' ###' 92&;28<6';24'N###,'D;B;5<6';'&<D3'?98:'
?:9D:'?3*=:;55':3'D3<8;92' &' @<'C5 ?'?:9D:'?3'23B3<'D @54'C3'C6';26'
49&&3<328'D 24@<8,A

L $ U 8

C< @H:8@ 8 <392& <D38:3D; 98;5C@88:;88:3<3=8 &8:3 <989,=:
8< =:=: @54 3<;83 928:3B;5536 &8:3 @< , :9= < =989 2
?;= ?: 556 92;479==9C53 & < 3 :;4 ?98: 97 ;55 <3A=
D;B;5<6;24 7 =8 &:9=H@2=, :;B3=3 ;<;834 :97 &< 7 :9=
D:93& ? @54 :;B3 53&8:3 5;883< 92D; ;C53 &;26 &&32=9B3 7 B3V
7328, 3 43D59234 8 59=832 8 8:3 < =;5;24 7 ;<D:34 B9;
8:3 =D@<9;5 8 X 92 8:3 7 ;92 ;<76
; :3&;D8 ?;= 8:;88:3 -@28;=8955 3<=9=834 92 8:3 & 59=:C3593&
8:;8 ; 53 2:;4 2 7 <3 8:;2 M# ### 732 49= =;C53 92 <8:3<2
;92 92=83;4 &8:3 $ # ### ?: ?3<3<3;556 ;8 :9= D 7 7;24,
:36 5 >34 2 8:3 <32D:;4B;2D3 8 @<H =;=;73<3 <3D 2V
2;9==;2D3 92 & <D3 7;43 C6;=92H53 D < =;24 92 8:9= 2 89 2 8:3
97C3D953 35B343<3 494 :9= C3=8 8 D 2&9<7 8:37 C6 =8;892H 92 :9=
49= ;8D:8:;88:3 & <D3 ?:9D:;4 < @834 :97 ;7 @2834 8 2
7 <3 8:;2 I ### : <=3;24 N ### 92&;28<6 2=83;4 &D;5592H 92
;=8;2 =;24 7 ;>92H ;43= 3<;83 ; 3;5 & <;94 8 <3 8:3
-@28;D 2832834 8:37=35B3= B98: 3243;B @9)92H 8 <3 <H;29R3
8:3 B<3D>= &8:3 ;<76 & =8<37;4@<; ;24 @=:92H & <?;<4
8:3 C35;834 &<;H7328= &8:3 =8 ;24 I<4 24;5@=9;2 49B9=9 2=
?:9D: =8955 592H3<34 92 ;4<94;= /)365 ;=8:3 &3 B ;=8959;2 53B93=
8:;8 B3<3 2 ?;B;95;C53 & <=3<B9D3 92 8:3 &9354, 8:92H D;2
=: /8:39< C5924=35&.D 2&9432D3 7 <3 D53;9556 8:;2 8:39< < D5;7;89 2
& B37C3< @8 & <?;<4 8 ;8832@;83 8:3 955 3&&3D8= 2 8:3
@C59D 7924 &8:3 2D B= &8:3 < @8 &%;7 2;5, T :3 @ <373,
-@28; & % B3<27328A = <@2= 8:3 4 D@7328 T92 <43< 8
<3B328;26 7 <3 @2:; 6 ;DD94328= &8:9=>924 :;=;&<3;46 8;>32
8:3 7 =8 <@4328 73;=@<3=$ 98:;=2 792;834 2 - =3 :3<349;
8 8:3 D 7 7;24 &8:3 ;<76 & =8<37;4@<;K 98:;= <43<34 ;55
8:3 8:3< H323<;5= &8:3 <76 & 8:3 9H:8 8 D 7C923 8:39<
7 B37328=K 98:;=H9B32 =8<92H328 <43<= & <8:3 < 7 8 <392& <D3V
7328 &8:3;C B3.2;734 ;<76 , , , :3<3 9= 3B3<6 : 3 8:;8 8:3
32376 ?: 2 ?C ;=8= &:;B92H C332 ;C53 8 ;4B;2D3 ;= &;< ;=
@<H = ?955 = 2 C3 ?355 D:;=89=34 & <:9= 8373<986, 24 9& 98 9=
D3<8;92 ;= 8:3 <3 <8= &< 7 8:3 &< 2893< ;==@<3 @= 8:;8 8:3
7 3< < &8:3 <32D:;=D 73 92 3<= 2 8 92= 3D8 8:3 D 24@D8

* <5;@=34 7;26 ;<H@7328= 8 924@D3 3 8 49<3D8 :9= 732 2
;4<94 ?:32 8:3 2H59=:H323<;5< 43 92 &< 7 ;5;B3<;8 49=D@==8:3=98@;89 2
?98: 8:3 ;29=:;@8: <9893=, 3 &D @<=3 53;434 8:3 4@86 & C34932D3
8 :9= D:93&,
* 35B343<3A= 49= ;8D: 8 8:3 -@28;> 1 N & B, P,

&' :9=' H323<;5=' ;24' :9=' 8< =' 92' ;92 ' ' 7;6' : 3' 8:;8' 8:3' B;59X928' 43&32439A=' &' @&' &;8:3<5;24' 7;6' ;= 9<3' 8 ' 8:3' H5 <6' &' 7;>92H' :97' &56' ?98:' 8:3' =;73' :;=83' ?98:' ?:9D:' 8:36' & <D34' :9=' C< 8:3<- =3 :' 8 ' ;C;24 2'8:3'8:< 23';24'8:3'D; 98;5' &'?:9D:' :3' B;9256'8: @H:8'8:;8';3' :;4'8;>32' ==3==9 2

92D3'8:36'=6=837;89D;556'@243<B;5@34'8:3'2@7C3<' &' ; 53 2A=' 59 =8 ' ;24' <3&@=34'8 ' C3593B3'8:;8'8:3<3' ?;=';26'4;2H3<' &';'=3<9 @=' ;88;D>' 2' ;49.94' 4@<92H'8:3' 23G8' &3?'4;6='98' ?;=';2;8@<;5'8:;8' 8:3'-@28;'=: @54'?;=83'92'8:3' 7 =8': 353==';=599 2'8:3'=: <8'897 3' &' <3= 983'8:;8'?;=' H9.;2834'8 '8:37'C38?332'8:3'< @8' &' %;7 2;5' ;24' ; 53 2A=' ;4B;2D3' &< 7' 9A;24;,' :36' :@734' & <?;9)4' 8:3'8< =' 8:;8'?3<3'D5 =3';8':;24'8 ' : 54'8:3' ;==3=' &'8:3' B;83<.' =:34'C38?332' 54';594' 3?' ;=8953 ';24'8:32' <3=@734'8:39<' @=@;5' D 2=898@89 2;5'43C;83=,

:3' & <D3=' ;B;95;C53' & <' 8:3' 43&32D3' &' ;4<94';3;<';C=@<456' =7;55' ?:32' ?3' D 2=943<' 8:3' 79H:86' 7;==' &' 732'8:;8' 2; ;<83' ?;=';=53;492H';H;92=8'8:37,' 3;<56':;5&' &'8:3'8 8;5'?;=' D 7 =34' &'8:3'? DD>=' &'8:3' =8<37;4@<;2';<76 ' 35B343<3 ';=98'?955'C3' <3737C3<34 ' :;4' C< @H:8'[C;D>'8 ' 3<7;'8:3'<37;92=' &' :9=' =8' ;24' $24' 9B9=9 2=' ;24';<;55934'8:37' 2' :9=928;D8' I<4' 9B9=9 2,' 593' ; < ;D:' &' ;=;553A=' D;B;:6' 2' B37C3<' '=D;<34'8:37' &< 7' 3<7;' ';24'8:3'?: 53' C 46' 2 ?' 3<:; =' M###' <' ###' =8< 2H'&355'C;D>' 2 <;24;,' 9A 7'8:32D3'?3'=: @54':;B3'3G 3D834' 8:;8'8:36'? @54'<389<3'C6'8:3':9H:.< ;4' 2' ;4<94';24'8;>3' =8' 92'8:3' ;==' &',8:3' 7 =93<<;,' @8'8:3' =8<37;4@<;2' &&9D3<=' 43D9434'8 '<38<3;8' 2' 3H B9;'&;<'8 '8:3'53&8'53;B92H' 256';':;24V &@5' &' 732';'8 'D B3<8:3' 7;92'5923' &';DD3==' 8 '8:3'D; 98;5),' 8' 5 >=';=9&';'>924' &'T: 792H'92=892D8A':;4'=39R34'8:3'?: 53';<76' ;24'D 7 35534'8:37'8 '<389<3';5 2H'8:3'< ;4'8:;8'534'8 '8:39<' ?2'< B92D3,' :3' 256'3G 5;2;89 2' H9B32'C6'8:39<' D 77;243<=' ?;=' 8:;8'8:36': 34'8 ' 9D>'@ '92'8:9=' 49<3D89 2' 7;26',' &'8:3' &@H989B3=' ?: ';:;4'2 8'<;55934'8 '8:39<' 7;92'C 46'0 23'D;22 8'=;6' 8 ' 8:39<' D 5 @<=' &' <' 7 =8' &'8:37' :;4'C332' D; 8@<34'C6'8:3

* < D5;7;89 2' &'8:3' @ <373'-@28;' @C59=:34'92' ' ' ' ' B,' M#M,

' <83D:3'=;6='8:;8');55'8:3'928;D8'8< =A'9,'3,'8:3'?: 53'I<4' =8<37;4@<;2' 49B9=9 2'&355'C;D>' 2'8:3' 7 =93<<;,' @8'8:9='9='92D <<3D8'& <';'49= ;8D:' &' %323<;5' <9;=' ; ' ' &' B37C3<'$$P' =: ?='8:;8':3, 256'8 >'8? ' <'8:<33'C;88;59 2='8'8:3' ;==';24'3B32'=)73' &'8:3=3'7@=8' ;&832B;<4=' :;B3' H 23' 2'8' 3H B9;'& <' 256' 23' =8<37;4@<;2'D < ='08:3' ;4;X R' 3H97328P' 9=& @24'92'8:3'59=8' &' ;2'-@;2A='598853';<76'0 <83D:3'999,' L"NP,

L L, ‘ ‘ ‘ U 8‘ Q(

<32D:P‘ 2‘ 8:3‘ 4;6‘ ;&83<‘ %;7 2;5 ,‘ 8‘ 3H B9;‘8:3‘@2:; 6‘ 35B343<3‘ ?;=‘ =@ 3<=3434‘ C6‘ 3<349;‘?: 7‘8:3‘-@28;‘:;4‘=328‘ 4 ?2‘&< 7‘ <;2X@3R‘8 ‘<3 <H;29R3‘8:3‘;<76,

:3‘ 8:3<‘8< =‘;B;95;C53‘& <‘8:3‘43&32D3‘ &‘ ;4994‘D 2=9=834‘ 7;9256‘ &‘8:3‘C35;834‘ &<;D89 2=‘ &‘8:3‘;<76‘ &‘ 24;5@=9;‘?:9D:‘ ;=8;: =‘:;4‘=@7 7 234‘=‘ 7;26‘8973=‘8 ‘X 92‘:97‘ 2‘8:3‘ C< ‘ C@8‘?:9D:‘?3<3‘=8955‘ 2‘ B37C3<‘ ‘92‘ <‘;C @8‘ ;4<94,‘ :36‘ ?3<3‘=@ =34‘8 ‘C3‘D 7 53892H‘8:39<‘D5 8:92H‘;24‘3J@9 7328‘;24‘ 8 ‘C3‘92D < <;892H‘<3D<@98=,‘ @8‘D 2=943<92H‘8:3‘32 <7 @=‘= ;D3‘ &‘8973‘8:;8‘:;4‘35; =34‘=92D3‘ ;6532‘98‘9=‘2 8‘@2&;9<‘8 ‘C3593B3‘ 8:;8‘8:3‘8<@3‘<3;=2‘& <‘8:39<‘43832892‘ 2‘92‘8:3‘D; 98;5‘:;4‘C332‘ 8:3‘-@28;A=‘?9=:‘8 ‘>33 ‘;‘D 2=943<;C53‘C 46‘ &‘8< =‘92‘98=‘ ?2‘ 97 7349;83‘239H:C @<: 4,‘ 8‘?;=‘D 2B3293288‘8 ‘:;B3‘<3H97328=‘ 23;<‘;8‘:;24‘?:9D:‘:;4‘2 8‘ ;==34‘@243<‘8:3‘D 28< 5‘ &‘;26‘ &‘8:3‘ H323<;5=‘D 7 7;2492H‘8:3‘ < B92D9;5‘;<793=,‘ :3<3‘?3<3‘92‘ ;4<94‘ 2 ‘53==‘8:;2‘2923‘C;88;59 2=‘ &‘8:3‘ <9H92;5‘49B9=9 2‘ &‘ 3492H ;55‘ <3H@5;<=‘;24‘;55‘D < =‘?: ‘:;4‘49=892H@9=:34‘8:37=35B3=‘;8‘ ;6532*,‘ &‘8:3‘ I<4‘ 9B9=9 2‘8:3<3‘?3<3‘8? ‘<3H@5;<‘;24‘8? ‘ 54‘ 795989;‘ C;88;59 2=‘ :3‘<37;9243<‘ &‘8:3‘;B;95;C53‘& <D3‘92‘8:3‘D; 98;5‘ D 2=9=834‘ &‘& @<‘C;88;59 2=‘ &‘23?‘53k93=‘<;9=34‘92‘8:3‘D; 98;5‘08:3‘ =8‘;24‘$24‘ 3H97328=‘ &‘8:3‘T‘/ 5@2833<=‘ &‘ ;4<94‘AP‘ &‘ 23‘23?‘ D < =‘&< 7‘ 24;5@=9;‘08:3‘I<4‘/ 5@2833<=‘ &‘ 3B9553P‘;24‘ &‘&9A;H7328=‘ &‘& @<‘<3H97328=‘ &‘D;B;5<6‘ :3‘?: 53‘49B9=9 2‘8?35B3‘8: @=;24‘ =8< 2H‘?;=‘ 5;D34‘@243<‘8:3‘D:;<H3‘ &‘%3239A;5‘ ;2‘-@;2‘;‘B383GA;2‘ &‘H 4‘<3 @8;89 2‘`;‘ @8‘:3‘?;=‘ 256‘;‘=@C <492;83K‘8:3‘=@ <373

‘ 33‘ <83D:3‘999,‘I$,‘ :3‘ &@H989B3=‘ &534‘=‘ &;<‘;24‘ ?943‘859;8‘ 5;>3‘ ;55934‘ ‘ &‘8:3‘<3H97328‘ &‘ @6‘;8‘ 3 2‘A 398:‘ ;6‘& @24‘8:37‘;55‘ B3<‘ 8:3‘D @28<6.=943‘ 2‘ B37C3<‘ ,‘

* :3=3‘D < =)?3<3‘8:3‘ ;55 2‘%@;<4=‘0I<4‘C;88,P‘ 392;‘08? ‘C;88=,P‘-;32‘ 08? ‘C;88=,P‘ < 2;‘08? ‘C;88=,P‘ <5;24;08? ‘C;88=,P 7@D:‘8:3‘5;<H3<:;5& &‘ 8:3‘ <9H92;5‘ =8 9B9=9 2‘ &‘ 24;5@=9;‘ ;24‘;55‘ 54‘D < =‘0=33‘8:3‘59=8=‘92‘ <83D:3‘999,‘L"NP,

‘ :3‘<3H97328‘ &‘ <4 B;‘08? ‘C;88=,P‘;24‘8:3‘ < B92D9;5‘ 795989;‘ &‘ 5D;R;<‘;24‘ 534 ,

B‘ ? ‘=J@;4< 2=‘3;D:‘ &‘) <92D9 3‘A‘;24‘T‘/ 5@28;<9 =‘43‘ ;4<94‘A 23‘3;D:‘ &‘ 5D;28;<;‘ ;24‘ 283=;,‘ 593‘ ?: 53‘ ;7 @2834‘8 ‘2 ‘7 <3‘8:;2‘N### =;C<3=,

‘ ; 93<)=‘43=D<9 89 2‘ &‘8:3‘) <76‘ &‘ 3=3<B3‘A9=‘B3<6‘92D 7 5383K‘:3‘ =;6=‘8:; 8);‘35B343<3A=‘;<76‘<;55934‘ ;<8‘92‘8:3‘ 7 =93<<;‘;24‘ ;<8‘ *;‘8:3‘ =943‘ &‘ 3H B9;,‘ :3‘8< =‘?:9D:‘:;4‘C332‘438;9234‘92‘ ;4<94‘ &< 7‘ ;=:‘ 8;&9 =A‘ ;<76‘?3<3‘& <?;<434‘8 ‘8:3‘ 7 =93<<;‘5‘ 8: =3‘53&8‘C3:924‘ &< 7‘ @3=8;A=‘53B93=‘08:3‘ ;=8959;2=P‘?328‘8 ‘3H B9;A‘09,‘$ "P,‘ @8‘ ;=‘?3‘:;B3

D 7 7 ; 24 7 ; 4<94 ? ; ; 8 8 : 9 7 7 328 92 49= @83 C38?332 %323<; 5 H@9; ? : : ; 4 X@=8 C332 ; 92834 ; : 3 ; 4 & 8 : 3): 53 < 7 6 & 3=3<B3 ; 24 8 : 3 ; <J@9 & ; =835; < ; 8; 92. %323<; 5 & 3? ; =8953, : 3 3G9=832D3 & 8? <9B; 5 ; @8 : <9893 2 8 : 3 = 8 494 2 8 8324 8 & ; D9598; 83 8 : 3 <H; 29R; 89 2 & 8 : 3 ; < 7 6 < 8 : 3 & < 7 ; 89 2 & ; <3H@5; < 5; 2 & 43&32D3, H@9; =@DD33492H ; 8 5; =8 92 ; ==3<892H : 9 ; @8 : <986 <43<34 ; 2 - @ ; 2 ?98 : : 9 $ ### 732 8 43&324 8 : 3 7 =93<<; ? : 953 3<349; ?98 : 8 : 3 " ### =89)37 ; 4@<; 2 ? ; 8 : 54 8 : 3 ; == & 8 : 3 %@; 4; <<; 7 ; 8 : 3 ; 583<2; 89B3 < ; 4 &< 7 54 ; =8953 8 ; 4<94 B9; B9; ; 24 ; 2 543& 2= , : 3=3 $ ### 732 ?3<3 ; 55 8 : ; 8 D @54 C3 C< @H : 8 @ 8 <3=9=8 ; 53 2 ; 88; D> =92D3 8 : 3 - @28; : ; 4 23H53D834 8 D; 55 92 98= 7 <3 49=8; 28 3= @<D3=, 8 9= D53; < 8 : ; 8 &< 7 8 : 3 &9<=8 8 : 36 ?3<3 4 7 34 8 &; 95@<3 & < 7 @28; 92 D : ; 92= ; <3 2 8 59>3 3< 32V 49D@5; < ? ; 55=K 8 : 36 D; 22 8 C3 7 ; 928; 9234 7 3<356 C6 C5 D>92H 8 : 3 < ; 4= 92 8 : 3 43&953=, 7 ; 55 C 493= & 8< = 328<32D : 34 ; D< == 8 : 3 ; D8@; 5 =@ 7 7 98 & 8 : 3 ; == D; 2 ; 5? ; 6= C3 8@<234 C6 ; 2 323 7 6 & =@ 3<9 < 2@ 7 C3<=5 & < 92&; 28<6 D; 2 3; =956 =D<; 7 C53 @ 8 : 3 &5; 2>92H : 39H : 8= 2 3; D : =943 & 8 : 3 : 9H : .< ; 4, : 3=3 : 39H : 8= 7 @=8 C3 : 354 C6 ; 43J@; 83 & <D3= ; <<; 2H34 92 ; D 2892@ @= 5923 & < 7 ; 26 7 953= 2 3; D : =943 & 8 : 3 43&953 9& 8 : 3 =989 2 9= 2 8 8 C3 @8&5; 2>34, 398 : 3< 3<349; 2 < ; 2 - @; 2 : ; 4 8 : 3 2@ 7 C3<= 23D3==; <6 & < 8 : 9= @< =3,

8 ? ; = 32 8 ; 53 2 8 ; 88; D> C 8 : 8 : 3 ; ==3= < 8 43 7 2=8<; 83 ; H; 92=8 23 ? : 953 D 2D328<; 892H : 9= 7 ; 92 & <D3 2 8 : 3 8 : 3< < 8 D 7 538356 9H2 <3 8 : 3 23 ; 24 8 8@<2 3B3<6 7 ; 2 ; H; 92=8 8 : 3 8 : 3<, 3 D : =3 8 : 3 5; =8.2; 7 34 ; 583<2; 89B3K ; &3? D; B; 5<6 256 ?3<3 8 54 &&8 ? ; 8D : 8 : 3 =8<3 7 ; 4@<; 2= ; 8 3H B9; 8 : @H59 3&3CB<3 ; 24 8 : 3 L8 : < = ?3<3 @589 7 ; 8356 =328 92 8 : ; 8 49<3D89 2, : 3 7 ; 92 7 ; == & 8 : 3 ; <7 6 7 ; <D : 34 & < 7 9A; 24 ; H; 92=8 8 : 3 7 =93<<; , ; 2 - @; 2 : ; 4 2 8 7 ; 43 8953 C3=8 & : 9= <8@29893=K : 3 : ; 4 4 23 2 7 <3 8 : ; 2 < ; 2H3 : 9= ? : 53 ; <89553<6 ; D< == 8 : 3 ; == ; 8 98= DG4 7 92; 892H 928 ? 98 : ; = : ; 55 ? 3; <8 : ? <> ; 8 < 83D8 98, : 9= 256 D B3<34 8 : 3 598853 5; 83; @ ; 8 8 : 3 : 3; 4 & 8 : 3 43&953,K 8 : 3 &5; 2>92H : 39H : 8= 2 398 : 3< =943)3<3 2 8 <3 ; <34 < 328<32D : 34, : 36 ?39)3 =833 3= 3D9; 556 2 8 : 3 <9H : 8 =943 &8 : 3 < ; 4 C@8 2 ? : 3<3 92; DD3==9C53 8 92&; 28<6 7 B92H 92 =>9< 7 9= : 92H <43<, 8 8 : 3 2 <8 : 3<2 & 8 & 8 : 3 ; == 593= 8 : 3 598853 8 ? 2 &

=332 256 23 <3H9 7 328 & 35B343<3A= 732 ?328 8 8 : 3 7 =93<<; ; 24 8 : 3 ; =8959; 2= 0 ; 4<94 / 5@2833<=P 7 ; <D : 34 8 : 98 : 3< ; 24 2 8 8 3H B9; ,

3 @5B34; ? :9D: 9= <3;D:34 C6 ; < ;4 8: ;8 C<;2D:3= &&&< 7 8:3 ;4<94 C3& <3 98 D 7 732D3= 8 7 @28 8:3 43&953, 8:9= 5;D3 ;:-@;2 @=:34 & <?;<4 ;B;2H@;<4 D 2=9=892H &&9B3 C;88;59 2= &B383<;2 5923 8< = ;C;883<6 ;24 :;5&:9= ;B;95;C53 D;B;596, 8 9= :;<4 8 =33 ?:6 :3 <9=>34 8:3 &5 ?3< &:9= 598853 ;<76 92 8:9= ;4B;2D34 =989 2 8:36 ?3<3 5;D34 098 9= 8<@3P = ; = 8 &5;99>;26 ;8837 8 &8:3 <32D: 8 ;4B;2D3 @ 8:3 :9H:.< ;4, @8 ?::;8 @=3 D @54 8:3<3 C3 92 8:<3;83292H 8:3 &5;2> & ; 53 2 = L# ### 732 ?98: ; =7;55 438;D:34 C<9H;43 & I ## C;6 238=b 24: ?? 3<3 8:3 8< = 8 X 92 8:39< 7;92 C 46 9& 8:3 7 3< <=97 56 T D 28;9234 8:37 ?98: ; =7;55 & <D3 ;24 @=:34 @ 8:3 ;== b

53 2 53&8 <;24; 2 B37C3< $M 2 8:3 8?3286.2928: :3 <3;D:34 D3&&@955;= 23;< 8:3 & 8 & 8:3 7 @28;92= ? :3<3 8:3 3 @5B34;< ;4 X 92= 8:3 H<3;8 ;8 8:3 C 88 7 & 8:3 ;==, &83< <3D 22 98<92H 8:3 ;29=: = 989 2 :3 =328 ; C<9H;43 & &@=9593<= & 8:3 %@;<4 @243< ;B;<6 8 8@<2 8:3 323 76 @8 & 3 @5B34;, 3;2?:953 :3 @=:34 :9= B;2H@;<4 @ 8:3 43&953 8 5 > & < 8:3 =989 2 & ;2 -@;2, ;B;<6 = C;88;59 2= &;9534 8 49=5 4H3 ;<432 438;D: 7328 C3& <3 29H:8&;55 C3:924 8:3 ?;55= & 8:3 8 ?2 8:3 ;29;<4= =8 4 &9<7 ;24 ;&83< 5 =92H =9G86 <=3B3286 732 ;B;<6 4<3?, &&, 9= ;88;D> ?;= 2 8 <3;556 23D3==;<6 & < 8:3 7 7328 8:;8 8:3 7 3< <:;4 =39R34 8:3 3G98 & 8:3 43&953 8:3 & <D3 ;8 3 @5B34; 2 98= D< ==.< ;4 ?;= D@8 &&& < 7 ;26 ==9C95986 &<3 9292H 98= D 7 7 ;243<.92.D:93& ;24 =8 4 92 ;B3<6 D 7 < 79=34 =989 2, 3;59R92H 8:9= &;D8, 5 235 ;<432 <38<3;834 92 8:3 29H:8 ;==34 D;@89 @=56 ;5 2H 8:3 & 8 & 8:3 :955= ;24 &355 C;D> 2 8:3 =8<37;4@<;2 ;<76 ;8 3H B9;, :3 256 <3=@58 8:3<3& <3 & ;2 -@;2= :;B92H 7;43 8:9= 438;D:7328 8 8:9.3;832 8:3 7 3< <= &5;2> ?;= 8:;8 :3 :;4 43 <9B34 :97=35& & 8593 =32433= &;)J@;<83< &:9= 8< = ;24 8: =3 8:3 C3=8 92 :9= ;<76 ?:32 98 C3D;73 23D3==;<6 8 43&324 8:3 ;D8@;5 ;==, 3 :;4 2 ? 53&8 8 =3 ; 53 2 256 =9G C;88;59 2= &<3H@5;<= 8? & 795989;;24 =3B32 &<;?;=8959;2;24 =8<37;4@<;2 53B93= 8:3 H@2= ? :9D: :3 :;4 3=8;C59=:34 92 5923 ;D< == 8:3 598853 5;83;@;8 8:3 D<3=8 &8:3 ;== 337 8 :;B3 C33<=*=9G8332 92 2@7C3<), :3 7 3< <D @54 C<92H ;H;92=8 :97 ;C @8 &9B3 732 8 23,

* 23 C;88;59 2 & ;55 2 %@;<4 8? 3;D: &8:3 <3H97328= &-;32 ;24 <5;24; ;24 8:<33 =J@;4< 2= &8:3 <3H97328= & 283=;;24 5D;28;<; ?98: =9G H@2= ;55 @243< 5 235 ;<432 0D 5 235 &8:4 283=; 3H97328P,

M##M□ ' 0 ' ' L

: 3' : 9H : .< ; 4' ; 4B ; 2D3=' C6' ;' =3<93=' &' D@2.3=' @ ' 8 : 3' =943' &' 8 : 3' 7 @28 ; 92 ' ?98 :' 8 : 3' <; B923' &' 8 : 3' 598853' <9B3<' @<; 8 2' ; 5? ; 6=' 2' 98=' <9H : 8' : ; 24, ' 593' H9A @24' 2' 398 : 3<' &5 ; 2>' 9=' =833 ' C@8' 2 8' 92V ; DD3==9C53, ' ; B ; 5<6' ; 24' H@2=' 7 @=8' =89D>' 8 ' 8 : 3' ' C@8' 92&; 28<6' D ; 2' @=:' ; : 3 ; 4' ?98 :' 7 <3' <' 53==' 3 ; =3' 92' 3B3<6' 49<3D89 2, ' : 39)3' ?3<3' =3B3<; 5' < @H :' =943.8<; D>=' 2' ? : 949' 8 : 3' <32D :' D @54' 59 ; B3' 8@<234' ; 2' -@ ; 2 ; =' =989 2 ' C6' 7 ; >92H' ;' 5 2H' D9<D592H' 7 B3 ' 2328, ' @8' 2 ; ;<83' 49=4 ; 9234' 8 ' @=3' D ; @89 @=' 73 ; =@<3=K' : 3' >23?' 8 : ; 8' : 3' : ; 4' 92' &< 28' &' : 97' ;' B3<6' =7 ; ^' & <D3 ' ; 24' : 3' : ; 4' ; 2' 3G ; HH3<; 834' D 2837 8' & <' 8 : 3' ; 29=:' 53B93=, ' DD 9G5999H56 ' ; 8' 4 ; ?2' 2' 8 : 3' 8 : 9<8938 : ' : 3' @=:34' @ ' 8 : 3' 7 ; 92' 43&953 ' 73<356' 8 ; >92H' 8 : 3' <3D ; @89 2' &' >33 92H' =8< 2H' 9D>38=' &' 92&; 28<6' @8' @ 2' 8 : 3' &5 ; 2>92H' : 39H : 8=,

: 32 ' ; &83<' ;' 7 ; 9.D :' &' ; C @8' =3B328332' 7953=' @ ' 8 : 3' 43&953 ' 8 : 3' <32D :' <3 ; D : 34' 8 : 3' &< 28' &' ; 2' -@ ; 2A=' =989 2 ' 8 : 3' 7 2992H' ? ;=' B3<6' &; <' = 328, ' 8' ? ;=' ;' 4@55' B3 7 C3<' 4 ; 6' ?98 :' DD ; =9 2 ; 5' =: ?3R.=' &' <; 92 ' ; 24' & H=' ; 24' 79=8=' : @2H' D5 =3' 8 ' 8 : 3' =5 3=' &' 8 : 3' 7 @28 ; 92=, ' ' H323<; 5' B93?' &' 8 : 3' H< @24' D @54' C3' C8 ; 9234 ' C@8' 8 : 3' 7 3R) <' 7 ; 43' @8' 8 : 3' ; 29=:' H@2=' 5 ; D34' ; 3< ==' 8 : 3' : 9H : .< ; 4 ' ; 24' D @54' =33' 8 : ; 8' 8 : 3' : 39H : 8=' & <' = 73' 598853' ? ; 6' 2' 398 : 3<' : ; 24' ?3<3' DD@ 934, ' 3' ; 8' 2D3' 43 5 634' 8 : 3' 49B9=9 2' &' @&&92 ' C35 2H92H' 8 ' / 9D8 <A=' D < =' ? : 9D :' : 3 ; 434' : 9=' 5923' &' 7 ; <D :, ' : 3' & @<' C ; 88 ; 59 2=' &' 8 : 3' "N8 :' 7 B34' @ ' 8 : 3' < ; 4' 8 ? ; <4=' 8 : 3' C ; 883<6K' 8 : 3' "8 :' 3H3<' = <3 ; 4' @8' 92' =>9< 79=: 92H' <43<' 8 ' 8 : 3' <9H : 8 ' 8 : 3' $L8 :' &' 8 : 3' 923' 8 ' 8 : 3' 53&8, ' : 36' <3==34' & <? ; <4' @ ' 8 : 3' =833 ' =5 3=' 8 ; >92H' D B3<' C3 : 924' < D>=' ; 24' 92' @24@5 ; 89 2=' &' 8 : 3' H< @24K' 8 : 39<' < H<3==' ? ;=' 92' 2 ' =959 ; 55' 43H<33' : 35 34' C6' 8 : 3' 79=8 ' ? : 9D :' <3B32834' 8 : 3' ; 29 ; <4=' &< 7' H38892H' ; 26' &@55' B93?' &' 8 : 39<' ; ==; 95 ; 28=, ' 9.3=32856 ' & <' : ; 5&' ;' 7953' 2' 3 ; D :' &5 ; 2>' &' 8 : 3' : 9H : .< ; 4 ' 8 : 3' 7 @28 ; 92.=943' ? ;=' ; 59B3' ?98 :' 8 : 3' D8 ; D>592H' &9<3' &' 8 : 3' 5 2H' 5923=' &' 89<; 9553@<=, ' : 3' 832' <32D :' C ; 88 ; 59 2=' ?3<3' 7 ; >92H' 8 : 39<' ? ; 6' =5 ?56' C@8' =@<356' 8 ? ; <4=' 8 : 3' D<3=8 ' ? : 32' 8 : 3' 7 3< <' < 43.' 8 ' 8 : 3' &< 28, ' 3' C< @H : 8' @ ' ?98 :' : 97' ;' C ; 883<6' &' ; <8955396' &' 8 : 3' %@ ; <4 ' ? : 9D :' : 3' 49<3D834' ; H ; 92=8' 8 : 3' ; 29=:' 5923' &' H@2=' C@8' ?98 :' =7 ; 55' 3&&3D8 ' & <' 8 : 3' 32376' : ; 4' 8 : 3' ; 4B ; 28 ; H3' 92' 2@7C3<=' ; 24' =989 2, ' 2 ; ;<83' H<3?' 97V ; 89328K' 9&' : 3' : ; 4' ? ; 9834' ;' 598853' 5 2H3<' @&&92A=' 49B9=9 2' ? @54' : ; B3' D53 ; <34' 8 : 3' &5 ; 2>92H' : 39H : 8=' ?98 : @8' ; =>92H' & <' ; 94, ' @8' : 3' ? ;=' ; 2G9 @=' 8 ' <3==' 8 : 3' D 7C ; 8' 8 ' ;' 43h89=9 2' ; 24' : ; 4' 8 : 3' HG.3 ; 83=8' D 283<2 8' & <' 8 : 3' & <D3=' 92' &< 28' &' : 97, ' 9=' 7 ; 92' 943 ;

;8' 8:3' 7 7328' =337=' 8 ' :;B3' C332' 8 ' H9B3' :9=' ;<76' ;24' :9=' H323<;5=';'=;7 53' &'8:3'59C3<893='8:;8' 79H:8'C3',8;>32'?98:' ;29=:' 53B93=,' &83<' 2 892H' 8:;8' /9D8 <A=' 92&;2896' ?3<3' 4<;?92H' 23;<' 8:3' =@7 798' &'8:3'D<3=8' ;24' =3373 4' ;C53' 8 ' < 55' C;D>' ;55' 8:;8' 5;6'92' &< 28' &'8:37 ' :3' =@443256' 8 >' ;' =8<;2H3' ;24' 973G 3D834' =83 ,' 3' 8@<234' 8 ' 8:3' =J@;D&< 2' &' 59=:' 9H:8' 9A=3' ?:9D:' & <734' :9=' 3=D <8' & <' 8:3' 4;6' ;24' C;43' 85 37' <3 ;<3' 8 ' D:;<H3' 8:3' ;29=:' C;883<6' ;8' 8:3' 8 ' &'8:3' ;==,' 8' ; 3;<34' ;' 3<.* &3D856'92=;23' <43<'& <'8:3' 53=' ?3<3' 2 8' ##'=8< 2H*$ 8:36'D @54' 256' ;4B;2D3' ;5 2H' 8:3' < ;4' & @<' ;C<3;=8' ;24' 8:32' 8:36' ? @54' C3,3G =34'& <'= 73' L##' 6;<4=' 8 ' 8:3' D 2B3<H92H' &9<3' &' =9G8332' H@2=,' 53;<56' 8:3' :3;4' &'8:3' D:;<H92H' D 5@72' ? @54' C3' B ?34' 8 ' 43=8<@D89 2 ' ;24'2 8';' 7;2' ? @54' 3=D; 3' 9&'8:3'92&;28<6'=@ 9A8=' &'8:3' C;883<6'=8 4' &9<7,' @8' 2; ;<83' D;9A34' 2 85992H' & <' 8:3' 59B3=' &'8:3'@2& <8@2;83'8< 3<=' ?:' ? @54'& <7'8:3'& <5 <2':3' 9&' 256':3'D @54'4359B3<' 23' &'8: =3'8:3;8<9D;5'=8< >3=' ?98:' ?:9D:' :3' 5 B34' 8 ' ;4 <2' ;' M ' 8' ? @54' C3' 8;73' ;24' D 7 7 2V 5;D3' 8 ' ;55 ?' /9D8 <A=' 92&;28<6' 8 ' D53;<8:3':39H:8=' 2' 398:3<' =943' ;24'8 ' D 7 35'8:3'<38<3;8' &'8:3' ;29=:'H@2=' C6' 7D9.D' @8&5;2>92H,' 2'8:3' 8:3<';24'98';=' D3<8;92'8:;8'8:3'32376'92@=8' C3'H< ?92H' B3<6'@2D 7& <8;C53' ;8'8:3'=9H:8' &'8:3'=83;46' < H<3==' &' @&&92A=' C;88;59 2=' @ ' 8:3' :39H:8=K' 8:3' 7 3< <' D;5D@5;834' 8:;8' ;2' -@;2A=' ;<89553<6732' 7@=8' ;:3;46'C3'5 >92H' B3<'8:39<'=:@543<=' ;24' 3G 3D892H' 8:3' <43<' 8 ' <389<3' ?:32' 8:3' D<3=8=' ;C B3' 8:37' =: @54' C3'5 =8,' &'32 @H:' &'8:3' 53=' =8<@HH534' 8:< @H:' 8 ' 8:3' H@2=' 8 ' =9532D3' 8:3' C;883<6' & <';' 7 7328' 8:3<3' ?;=';5;<H3' D:;2D3' 8:;8' 8:3' ?: 53' ;29=:' 5923' ? @54' C<3;>' ;24' &56' 4 ?2' :955' 8 ' @98<;H ' ;24' ;4<94,' '=@ <8'8:3'3=D <8.=J@;4< 2' :3' <43<34' @ ' 8:3' <3=8' &'8:3' 59=:' <3H97328' ;24' 8:3' ' ' ' &' 8:3' %@;<4K' 9&'8:3'43B 834' B;2H@;<4' D @54' 2D3' <3;D:' 8:3' H@2= ###' =;C9A3=' ? @54' =@ <8'8:37' ;24' =?33 ' ;5 2H' 8:3' < ;4,' &' 2'8:3' 8:3<';24'8:3' 53=' ?3<3' 3G83<7 92;834' 8:3' %@;<4' D;B;596' ? @54' C3' :354' C;D>' ;24' 2 8:92H' ? @54' :B3' C332' 5 =8' =;B3' 8:3' 59B3=' &'8:3'& 9.5 7' : 3,

* 3B32' &&9D3<=';24'39H:86'732'8 ' C3'3G;380=33' DH@<' # $'999,' MP,' 8'4 3=2 8'=337'8 ' C3'H323<;556'>2 ?2' 8:;8'8:3' 53=' ?3<3'2 8'638'5;2D3<=,' :36'?3<3' 256';<734'?98:'8:3'5;2D3'8:<33' 7 28:=';83<0=33', & ' * & $ L M "'H9B92H'8:3' <43<' 8 ' 8:;8' 3&&3D8P';24' ?3<3';8'8:9=' 7 7328' < 3<56' 86534' * + F7! 6 ' # ' 256,' 57 =8' 3B3<6'2;<<;89B3' &'8:3' 7 .' =93<<;'8:;8' ':;B3' <3;4'D;55='8:37'5;2D3<=$; 93<'9='892'3GD3 89 2,

%323<;5' 28C<@2' 534' 8:3' 59=:' =J@;4< 2' & <?;<4' & <' ;C @8' :;5&))8:3' 49=8;2D3' 8:;8' =3 ;<;834' 8:37' &< 7' 8:3' H@2=K' =' 7;26' =;4453=' ?3<3' 37 8934' 8:;8' 8:3' 732' :3=98;834' ;24' = @H:8' <3&@H3' 92' ;' 49 ' &' 8:3' H< @24' ?:3<3' = 73' < D>=' H;B3' 8:37' 7 9A3' <' 53==' D B3<' &< 7' 8:3' ;29=:' C;55=,' :9=' =9H:8' 3G;= 3<;834' 8:3' 7 3< <K ?:32' ;58:3<' 8:3' H323<;5' D 7 7;2492H' 8:3' 7 3<9;5' %@;<4' < 43' @ ' 8 ' :97' ;24' =@HH3=834' 8:;8' :3' =: @54' ?;98' ;' 7 7328' 5 2H3<' 8955' / 9D8 <A=' 89<;95539@ ' =: @54' :;B3' D;9<934' 8:3' :39H:8=' 2' 3;D:' =943' &' 8:3' < ;4' :3' =7 83' 8:3' 7 735' &' :9=' =;4453' ;24' =: @834' T' 6' %@;<4' 7@=8' 2 8' C3' =8 34' C6' 3;=;28=' 73<3' ;<734' C;249889 ,A' 5932' :3' =328' & 2B;<4' :9=' ;943.43.D;7 ' :959 3' 43' 3H7.' 8 ' 8355' 8:3' 53=' 8:;8' 8:36' 7@=8' J@98' 8:39<' D B3<' ;24' D:;9)H3' : 73,' DH@<' H;55 34' 2' ;24' H;B3' :9=' 73==;H3' 8 ' 8:3' ' 4 ' 0 <X938@5=>9K' 8:3' 7 3< <A=' 363' ?;=' @ 2' 8:37' ' ;24' 8:3' 59=:' &&9D3<=' 494' 2 8' =:<92>,' 5;D92H' 8:37=35B3=' ;8' 8:3' :3;4' &' 8:3' =@<B9B <=' &' 8:39<' 43B 834' C;24' 8:36' C< >3' @8' &' 8:39<' D B3<' ;24' D:;<H34' 92' @ 2' 8:3' H@2=' Dk@<' <9492H' 8? ' : <=3=K' 532H8:=' 92' &< 28' . &' 8:3' <3=8,' :3<3' ?3<3' 256' $##' 6;<4=' 8 ' D< ==' C@8' 8:3' 8;=>' ?;=' 97 ==9C53' 23' C5;=892H' 49=D:;<H3' &' 8:3' ;29=:' H@2=' ;9434' C6' 8:3' &9<3' &' 92&;2896' =>9<79=:3<=' &< 7' 8:3' &5;2>=' <;D89D;556' 3G83<792;834' 8:3' @2:; 6' =J@;49A 2,' &' 8:3' 39H:86.39H:8' ?:' D:;<H34' & @<' &&9D3<=' ;24' & <86' 732' ?3<3' >95534' & @<' &&9D3<=' 0 23' &' 8:37' ?;=' DH@<P' ;24' 8?35B3' 732' ? @2434`,' :3' & <37 =8' &' 8:3=3' C 54' <943<=' H 8' ?98:92' 8:9<86' 6;<4=' &' 8:3' H@2=' C3& <3' :3' &355,

;B92H' 8:@=' =;D<9&9D34' 92' B;92' 8:9=' 598853' C;24' &' :3< 3=' 2;V ;<83' & @24' :97=35&' & <D34' ;&83<' ;55' 8 ' ?;98' & <' 8:3' 92&;28<6,' %323<;5' ;<< 9=' ?98:' 8:3' "N8:' 3H97328' & 55 ?92H' 92' 8:3' ?;>3' &' 8:3' 5 =8' =J@;4< 2' =39R34' 8:3' 5923' &' < D>=' C3:924' ?:9D:' 8:3' 53=' :;4' 8;>32' <3&@H3' C3& <3' 8:39<' D:;<H3' ;24' C3H;2' 8 ' 3GD:;2H3' ;' 59B356' 7@=>38<6' &9<3' ?98:' 8:3' ;29=:' C;88;59 2=' ?:9D:' &5;2>34' ;24' H@;<434' 8:3' H@2=,' 3;2?:953' 8:3' "8:' ;24' $L8:' 3H97328=' 2' 398:3<' =943' :;4' 23;946' <3;D:34' 8:3' D<3=8' &' 8:3' :39H:8=,' :3

' 55' 8:9=' 2;<<;89B3' D 73=' &< 7' :959 3' 43' 3H@<'?:' 7@=8' C3' & 55 ?34' 92' <3&39K32D3' 8 ' 8:3' I8:' : ' ;24' ;55' 8:3' ?9823==3=' ?:' ' ;553H3' 8:;8' 8:3' 53=' 494' <3;D:' 8:3' C;883<6,' 3 ' 9&' ;26' 23' >23?' ?:;8' <3;556' :; 3234' 3 # $' 999,' $M . P,' 9=' ;DD @28' &' 8:3' ?: 53' C@=923==' 9=' 92' D5 =3' ;DD <4' ?98:' 8:;8' &' 3' <;48' ?:' ?;=' ;5=' ;2' 363.?9823==,

* :3' &<9H:8&@5' < <89 2' &' >95534' 8' ?' @2434' D;73' &' D @<=3' &< 7' 8:3' &;D8' 8:;8' 8:3' D;=@;5893=' ?3<3' D;@=34' C6' ;<89553<6' &9<3,

LN# U 8 =

323 7 6 ?3<3 ;5<3;46 ?;B3<92H ;24 &;5592H\C;D> C3& <3 8:3 ;4B;2D3 & ;<< 9=K C<9H;43 ?: =3 =>9<79=:3<= :;4 =8<@HH534 8 8:3 =@7 7 98 X@=8 8 8:3 &9H:8 &8:3 H9.;24 C;883<6 2 8:3 :9H:.< ;4 ?:32 8:3 7 3< < <439 34 ;=3D 24 D;B;5<6 D:;<H3, :9= 89 7 3 :3 =328 @ 28C<@2 ?48:8:3 <37;9292H =J@;4< 2= &8:3 59=: <3H9 7 328 =@ <834 C6 8:3 6 A 8:3 %@;<4, :3 D 24989 2= ?3<3 D 7 538356 D:;2H34 ;24 8:9= =3D 24 ;88;D> ?;= 4359B3<34 ;8 8:3 <9H:8 7 7 328K 8:3 ;29;<4= ;55 ;5 2H 8:3 5923 ?3<3)2 ?: 3;B956 32H;H34 ?98: /9D8 <A= 92&;28<6, B:32 8:3<3& <3 8:3 : <=37 32 < 43 &@<9 @=56 92 @ 2 8:3 H@2= 98 9= 2 8 ? 243<&@5 8:;8 8:36 =@DD33434 92 D5 =92H ?98: 8:37 ;24 =39R34 8:3 ?: 53 C;883<6 ?98: =7;55 5 ==, :3 43&3243<= &8:3 ;==H;B3 ?;6 = =@443256 ;24 =D;883<34 ;7 2H 8:3 < D>= ?98: =@D: = 334 8:;8 256 $## &8:37 ?3<3 D;@H:8 ;24 <94432 4 ?7, :3 53= @<A=@34 8: =3 &8:37 ?: <389<34 4 B2 8:3 <;4 ;= &;< ;= @98<;H ;8 8:3 = @8:3<2 & 8 &8:3 43&953 C@8 ?98: @8 92&59D892H 2 8:37 ;26 B3<6 =3B3<3 5 ==S & < 8:3 &@H989B3= =?3<B34 &&8:3 ;8: ;24 D @54 2 8 C3 :@2834 4 ?2 C6 7 @2834 732 ;7 2H 8:3 =833 =5 3= ?:3<3 2 8:36 = @H:8 <3&@H3, :3 5;<H3< ;98 &8:3 ;29;<4= C392H =834 8 8:3 53&8 &8:3 &534 ?3=8?;<4 ;5 2H 8:3 =943 &8:3 7 @28;92 ;24 ;<<9B34 ;8 3H B9; ?:3<3 8:36 X 9234 8:3 ;<76 & =8<37;4@<;, 98: 8:37 B)328 ;2 -@;2 ?: :;4 B;9256 8<934 8 7;>3 :9= <3=3<B3 =8;24 &9<7 C3:924 8:3 H@2= ;24 :;4 <3D39B34 8? =? <4.D@8= 2 8:3 :3;4 &< 7 ;59=: &&9D3<, 256 ;= 7;55 ;<8 &8:3 ;<76 &534 8 8:3 49<3D8 <3;< ;24 3283<34 ;4<94,

:3 =8 <6 &8:3 ;==;H3 &8:3 7 =93<<;:;= &832 C332 8 54 ;= 9& 98 B;= ;2 3G;7 53 &8:3 =@DD3==&@5 &< 28;5 ;88;D> &D;B;5<6 2 H@2= ;24 ;= 9& 8:3 53= :;4 ;D8@;556 43&3;834 8:3 ?: 53 ;29=:;<76, 8:92H &8:3 >924 DD@<<34K ; 53 2 ;= ?3 :;B3 ,=332 92 ;7 7328 &97 ;8932D3 ;24 <;H3 D;5534 @ 2 8:3 53;492H =J@;4< 2 8 3<& <7;2 99J ==9C95986 ;24 D;@=34 8:37 8 C3 3G83GA792;834, :3 =3D 24 D:;<H3 B;= J@983 ;49&&3<328 7 ;883<K :3<3 8:3 :<=37 32 &355 @ 2 =:;>32 8< = ;5<3;46 D5 =356 32H;H34 B98: 92&;28<6 ;24 C< >3 8:< @H:8:37, @8 9& 8:36 :;4 2 8 D:;<H34 ;8 ;55 8:3 ;== B @54 :;B3 CC32 & <D34 2 23 8:3 53=,= ;24 256 &9B3 792@83= 5;83<8:;2 B;= ;D8@;556 8:3 D;=3 : 2 =: <8 98

D 0+ ,+(4 - 7,&+ 6 +8+).& %& 1+&. 3%8+) 1* \7, E%%% Q" F 80 8,%.+& (& 6 44 5&f N +)2().C7+ .,+ -0(,3+ (<(%. (..%,+ &7, +44+ 4+& 6+7= 2+ <+))+ '%' 4+ 3+L)+,(4 K(,, %& (8(%. /, 6%.+ 2+ -<.. D 2%8+,&%) &<+.(%. (<()-+ H7&C7<%%

?;= @&&92A= 49B9=9 2 ; 24;2 8 8593 D;B;5<6 ? :9D: <3;556 494 8:3 ? <>9 ; 53 2)?98:599H.: ;C98@;5 5 B3 &8:3 8:3;8<9D;5 ;24 :9= D@=8 7;<6 49=@A3H;<4 &8<@8:= (83 92 8:3 8: M 8:;8 8:3 D:;9AH3 &8:3 59=: 9H:8 <=3 43D9434 8:3 ;D89 2 ;24 8:;8 8:36 ::;4 5 =8 256 39H:8 >95534 ;24 =9G8332 9B 7 9434A :9= 53H324 :;= =59 34 928 :9=8 <6 ;24 8<;D3= &98=92&5@32D3 ?955 C3 & @24 3B32 92 ; 93< ;24 8:3<=3<9 @=;@8: 9A=,

:3 D 7C;8 &8:3 7 =939 ;92 =: <8 9= 256 ;2 3G;7 53 &8:3 ?355.>2 &;D8 8:;8 43&953= ?98:;DD3==9C53 95;2>.=5 3= D;22 8 C3 :354 C6 ;=7;55 ;<76 ;H;92=8 & @<& 54 2@7C3<=, =8;83 8:3 7;883< =: <856 &9&8332 C;88;59 2= &;29;<4= O&9B3 &85932X9 <3H@5;< C;88;59 2= ?:9D:;4 C332 <3=328 ;8 ;6532P ?3<3 8@<234 &&* 8:3 :39H:8= C6 8:3 "832 C;88;59 2= &@&&92K 8:3 D;B;5<6 ;D89 2 ?);= 256 ;= 3D8;D@5;< 9283<5@43, :3 ;29=:92&;28<6 D 2=943<92H 8:;8 8:3<3 ?)3<3 = 7;26 B383<;2 D < = ;7 2H 8:37 79H:8 :;B3 C3:;B34 C3883<, @8 8:36 494 2 8 =@&&3< 8:3 49=H9*;D3 &C392H < @834 C6 ;=92H53 =J@;4< 2 &: <=3 ;= ; 53 2 ;==3<834 $;24 9& 8:36 & @H:8 &33C56 8:39< 49=D @<;H37328 ?;= 4@3 ?3 D;22 8 4 @C8 8 8:3 &;D8 8:;8 8:36 =;?8:3 ;== ;D>34 & < 7953= 8 8:3 <3;< ?98:8:3 ;4B;2D92H D 5@72= &8:3 <32D: ;24 >23?8:;8 @&&92A= 49B9=9 2 ?;= 256 8:3 =>9<79=:92H 5923 O= 8 = 3;>P &;H<3;8 ;<76,

2 8:3 29H:8 &B37C3< I# ; 53 2 43=D32434 8:3 ;== ;24 &9G34 :9= :3;4 J@;<83<= ;8 @98<;H , 2 8:3 ;&83<2 2 &3D37C3< 8:3 ;4B;2D34 ;<893= &;8 7. ;@: @<HA= ;24 ;=;553A= D;B;:6 < 43 @ 8 8:3 2 <8:3<2 =@C@<C= &;4<94\ 2

5 < D:3<2 8<3 928 43 43 ;<8, ; @==3= 32 ;B;28 ;< A37 3<3@< @< <3D 7732D3< 7;D:;<H3 8<39R3 43 =3=H<32;493<=;B;9328 3)83 ;C;88@= ;< 53 &3 43 5;<34 @83, 5 <= <38< H<;4;28 43<<93<3 53 < D 95 ;B;98 32B 63 J@35J@3= D 7 ;H293= ;A3=D;5;43 43= :;@83@<= :2 8<3 4< 983X @9= 5@9.7373 ;5;8383 43 =;C<9H;43 6 38;98 7 283, , , , 3= = ;H2 5= =3 B 6;28 <3= 4A38<3 ;C <43)= ;B;9328 43)D:;<H3 53@<= ;<73= 38 =3 43:;24;@8 ;@==98 8 95= =A38;9328 79= ;&@9< ;8 @83= X;7C3=, @ 7373 7 7328 ;= ;H;@D:3 53 C<@98 43 5;D;2 22;4D ;B;98 D3==3, A38;98 ;5 <= J@3 53 <3H9 7328 3289 3< 43 5;2D93<= 5 2;9= <3D 7732 ;@8 5;D:;<H3 <37;8@<33 43 2 8<3 3=D;4< 2 438<@98;B;98 ;D:3B3 =;2= ;@8<3 3<83 4A3253B3< 5;= =989 2, 3= D;2 2= J@35J@3= &&9D93<= 38 # ;$### = ;H2 5= =3@537328 @<328 38<3 ;883928= 8;28 5;49= 3<=9 2 43 A;7933 43B;28 53= J@;8<3 C;8;955 2= 43 ;<< 9= ;B;98 383 =@:983 38 <; 943,A

* 3 43=D<9C3= 98 ;= 9&);= =989 2 23;<56 97 <3H2;C53 ;24 43&32434 C6 $### 732 ::4 C332 ;C;24 234 8 8:3 ?954 D:;<H3 &;;&3?= J@;4< 2=) ?: 7 8? D 7 ;293= &=83;46 92&;28<6 D @54 :;B3 =8 34 A 09, $NMP,

8:3=3D 24 8:3 <32D:; 3;<34 92 & <D3 ;24 8:3,;88;D> 2 8:3 D986 C3H;2,

j

:3 ;29=: D; 98 ?;=;24 9=;5;D3 92D; ;C53 &;26 <3H@5;< 43&32D3, 8 :;4,2 8 3B32 59>3 /;532D9; ;24 ;<;H ==; 8:3 <37;92= &;7 349;3B;5 ?;55K 98=43B35 7328 :;4 8;>32 5;D3 92 8:3 =9G83328:D328B@A6 ?:32 =3<9 @= & <89&9D;89 2=:;4 H 23 @8 & 4;83, 8=8<338= ?3<3 C< ;4;24 <3H@5;<@259>3 8:3 8 <8@ @=5;23= ?:9D:;4 C332 8:3 <3;5 =8<32H8: &;<;H ==;, 8:92H =3 ;<;83= 8:3 D986 &< 7 98= =@C97C= =;B3 <2;7328;5 H;83= ?: =3 256 @=3 ?;= & <8:3 53B6 &D8< 9 4@893=, ;4<94 9=C@958 92 ;53B35 @ 5;24 C@8 8:3<3 9= ;<9=92H H< @24 ?:9D:4 792;83= 8:3 ?: 53 5;D3K 98 593=X@=8 @8=943 8:3 3;=83<2 597 98 &8:3 D986, 2 98 =8 4 8:3 ;5;D3 &8:3 @32 389< 0?:9D: H9B3= 98= 2;73 8 8:3 :39H:8P ;24 =3B3<;5 8:3< @C59D C@95492H= ;7 2H 8:37 8:3 C=3<B;8 <6 ;24 8:3< 6;5 <D3V 5;92 7;2@&;D8 <6 >2 ?2 ;= ;:92;, :3 5;883< DD@ 934 8:3 7 <3 D 7 7;2492H ;24 97 <8;28 =3D89 2 &8:3 =@7 798 &8:3 :955, 38?332 8:3 389< ;24 8:3 3;,=837 =943 &8:3 D986 593= 8:3 @C59D ;<> >2 ?2 ;= 8:3 <;4 ;5 ?.5692H 32 = ;D3 5;94 @8 ?98:& @28;92= =8;8@3= ;24 5 2H ;B32@3= &8<33=, :<33 C< ;4 ;24 :;24= 73 =8<338= <@2 3;=8?;<4 ;24 83<792;83 92 8:3 <;4 X@=8 =983 8:3 389< = 8:;8 D;22 2 5;2834 398:3< C6 8:3 ;5;D3 < C6 ;:92;D;2 =3;<D:8:37 &< 7 324 8 324, :9= ?;= = CB9 @= 8:;8 @<;8 4@<92H :9= DD@ ;89 2 &;4<94 92 <95 ;24 ;6 ::;4 C@958 8:<33 <34 @C8= 23 5;<H3 ;24 8? = 7;55 &;D92H 4 (B2 928 8:3 D986 ;24 ;9A734 ?98:H@2= &=989 2, :3 92V :;C98;28= &;4<94 :;4 ;<856 49=7;28534 8:37 ;&83< 8:3 43 ;<.8@RA3 &8:3 <32D: ;24 494 8:37=35B3= 2 :;<7 8:3<3C6 & <8:3=3 3;9A8:? <>= ?3<3 @=353== & <43&32D3 ;H;92=8 ;2 3237 6 &< 7 ?98: @8K 8:36 D @54 C3 37 5 634 8 B3<;?3 8:3 D986 C@8 2 8 8 <83D8 98 ,

B3< =92D3 8:3 < @8 &%;7 2;5 8: =3 737C3<= &8:3 -@28;? : ?3<3 H9&834 ?98: <492;<6 & <3=9H:8 7@=8 :;B3 <3;59R34 8:;8 98 ?;= < C;C53 8:;8 8:3 7 3< < ? @54 ; 3;< 3<3 5 2H C3& <3 8:3 H;83= &8:3 D; 98;5, @8 8 ;B 94 ;5;<7 92H 8:3 3GD98;C53 @5;D3 8:3 &;D8 ?);= D 2D3;534 ;= 5 2H ;= ==9C53 ;24 98 B;= H9B32 @8 8:;8 ;49)94 B @54 C3 43&;9434 ;8 8:3 97 <3H2;C53 7 =93<<; 8 ?;=2 8 8955 B37C3< $ 8:;8 ;26 @C59D 73;=@<3= & <8:3 & <89&9D;89 2 &8:3 D; 98;5 ?3<3 = >32 &, 2 8:;8 4;6 8:3

* :3 ;553 43 5D;5; ;553 43 8 D:; ;24 ;<<3<; 43 ;2 %3< 297 ,

* :9= 43=D<9 89 2 9= 7;9256 &< 7 /;@H:;2A= @2 @C59=:34 49;<6 0 , $I#P,

-@28;' 9==@34' ;' < D5;7;89 2' 5;D92H' 8:3' D:;<H3' &'8:3'D; 98;5'92 8:3' :;24=' &'8:3' ;<J@9=' &' ;=835;<)' ; 8;92.%3237 5' &' 3? ;=8953' ;24' &' 2', 739=' 43' <5;' 8:3' &&9D3<' ?:' :;4' ? 2 ;' 2;73' C6' C 7C;<492H' ;24' D; 8@<92H' 8:3' <32D:' &5338' ;8' ;49R 92' -@23,' 243<' 8:39<' 49<3D89 2=' <3 ;<;89 2=' ?3<3' C3H@2' & < @8892H' 8:3' D986' 92' ;' =8;83' &' 43&32D3,' @8' 8:3' 79598;<6' 732' :;4 ;' =89* 2H' ;24' ?355.& @2434' C3593&' 8:;8' 8:3' 5;D3' ?;=' 9243&32=9C53 224' 8:;8';55' 3&& <8=' 7;43' 8' & <89&6' 98' ?3<3' 5;C @<' 8:< (=9' ;?;6' 8:3' &9H:8' 7@=8' C3' 7;43' ;8' 8:3' 7 =93<<;' 2 8' ;8' 8:3' H;83=' & ;4<94,' 8' ?;=' 2 8' 8955' 8:3' 23?=' &'8:3'< @8' &' ;2' -@;2A=' ;<76 2' 8:3' 8:9<8938:' D;73' 8' :;24' 8:;8' ;26' B3<6' =3<9 @=' B <>' ?;= 3G3D@834,' *@8' ?:32' 8:9=' 49=;=83<' ?;=' >2 9B2' 8:3<3' ?;=' ;' =@4432' ;24' = 532494' @8C@<=8' &' 323<H6,' :3' @5;D3' &@55' &' B9249D89B3' 737 <93=' &' ;6' $' ?3<3' <3;46' ;24' ?95592H' 8' &9H:8' ;24' :;4' 2' D 2D3 89 2' &'8:3' 79598;<6' ?3;>23==' &'8:39<' =98@;89 2,' &' ;<;H ==;' :;4' 43&32434' 98=35&' =8<338' C6' =8<338' ?:6' 8:36' ;=>34' =: @54' 2 8' ;49)94' 4' 8:3' =;73' b' :39<' = 9<98=' ?3<3' =' :9H:' ;24' 8:39<' 837 3<' =' &3< D9 @=' 8:;8' 8:3' ;@8: <9893=' <3;59R34' 8:;8' 8:36' 7@=8' 5;D3' 8:37=35B3=' ;8' 8:3' :3;4' &'8:3' 7@5898@43' <' C3' 8 <2' 8' 93D3=' ;=)' 8<;98 <=,' 2' 3D37C3<' ';'-@28;' &' 3&32D3' ?;=& <734'@243<'8:3' <3=9432D6' &'8:3' @>3' &' 2&;28;4' 92' ?):9D:' <5;' ;24' F9=835;<' ?3<3' H9B32' ;' 5;<H3';24' :383< H323 @=' 7;==' &' D 553;H@3= 7;H9=V 8<;83=' &&9D3<=' ;24' < 792328' D989R32=' & <792H' ;2' @2?93546' C 46' B3<6' @2&98' 8' ;D8' ;=' ;2' 3G3D@89B3' D @2D95' &' ?;<,' :3' 79598;9W6' <3= @<D3=' ;8' 8:39<' 49= =;5' ?39*3' 92=9H29&9D;28K' 8:3<3' ?);=' ;' :;24&@5' &' 8:3' &@H989B3=' &< 7' 8:3' 7 =93<<; ;=835;<' 3=897;834' 8:37' ;=' 2 8' 7 <3' 8:;2' I##' <' L##' 92' ;55' ;24' 8? ' C;88;59 2=' &'23?'53B93=' &< 7' 8:3' =@8:' ?:9D:' :;4' ;<<9B34' 256' 2' 8:3' 7 <292H' &' 3D37C3<' ,' :3' <H;29R34' & <D3=' 8:32' ?3<3' 2 8' 7 <3' 8:;2' $ ##' <' I ###' 92' ; ;' @8' 8:3<3' ?;=' ;' B;=8' ;24' @2<@56' 7 C' &' D989R32=' &' ;4<94' ;24' &' 3;=;28=' ?:' :;4' &5 D>34' 928' 8:3' D986' 8' ;94' 92' 98=' 43&32D3,' 3; 2=' <;8:3<' 8:;2' 732' <B3<3' ?;2892H' & <' ?:32 M###' 7@=>38=' &< 7' 8:3' <=32;5' :;4' C332' =3<B34' @8' 8:3' =@ 56' <;2' =: <8,' 55' <9B;83' 3<= 2=' ?292H' &9<3;<7=' &';26' 43=D<9 89 2' ?3<3' 92B9834' 8' ' :;24' 8:37' 92' 8' 8:3' -@28;K C@8' 8:9=' <3= @<D3' = 2' &;9534' ;24' &92;556' 9>3=' ?3<3' =3<B34' @8' ;24' 3B32' 7349;3B;5' ?3; 2=' &< 7' 8:3' < 6;5' ;<7 @<6' ;24' 8:3' &;7956' D 553D89 2=' &' D3<8;92' H<;2433=,' ?' 7;26' 732K;<734' 92' 23' ?;6' <' ;2 8:3<

)' :9=' 7@=8' :;B3' C332' ;2' @243<.3=897;83,' <3' 8:;2' ## &'8:3' 7 V =93<<;'8< =':;4'X 9234'8:3';<76' &' 2&;28;4'C6'8:3' 3?' 3;<

8 >' ;<8' 92' 8:3' 43&32D3' &' ;4<94' ?955' 23B3<' C3' >2 ?2 98' D;2V 2 8' :;B3' C332' 53==' 8:;2' $# ###' ;24' 7;6' :;B3' ;7 @2834' 8 ' 7@D:' 82 <3,'

8' 73<356' 8:3' D 7C;8;28=' C@8'8:3' ?: 53' @5;89 2' &' C 8:' =3G3=' 8@<234' 8:37=35B3=' ?98:' ;C= 5@83' &<32R6' 8 ' 8:3' ? <>' &' & <89&9D;89 2,' 2' 8:3' 8? ' 4;6=' ?:9D:' 8:36' :;4' ;8' 8:39<' 49= =;5' 8:36' D;<<934' @8' ;2' 32 <7 @=' ;24' 9 .D 7 2D834' =D:373' & <' =@<V < @2492H' 8:3' ?: 53' D986' ?98:' 5923=,' 2' &<A 28' &' 3;D:' &' 8:3' H;83=' ;' C;883<6' ?;=' 3=8;C59=:34' & <734' &' 3;<8:' <3B 834' ?98:' ;B92H.' =8 23=' K' 8 ' D 223D8' 8:3=3' ;' D 2892@ @=' ?;55' ?;=' 7;43' C6' X 9292H' 8 H38:3<' ;55' 8:3' 3G83<9 <' : @=3=' &' 8:3' 8 ?2' ?98:' 3;9.8:? <>=' <' ?98:' 953=' &' =8 23=' ;24' C<9D>=' @5534' 4 ?2' &< 7' C@9549 2H=' 92' 8:3' =@C@<C=,' 2' =3B3<;5' &< 28=' 498D:3=' ?3<3' 3GD;B;834K' 8:3' 7 <3' 97 <8;28' =8<338=' ?3<3' C5 D>34' ?98:' C;<<9D;43=' ;24' 8:3' ?924 ?=' ;24' 4 <=' &' 3G =34' C@95492H=' ?3<3' C@958' @ ,' 593<3' ?3<3' B3<6' &3?' 32H9233<=' ;8' 8:3' 49= =;5' &' 8:3' -@28;' ,&' 3&32D3' ;24' 8:3' @5;D3' 92' 7;26' 5;D3=' ? <>34' 2 8' @243<' =>9534' H@94;2D3' C@8' C6' 8:3' 59H:8' &' 2;8@<3' 3G3D@892H' 32 <7 @=' C@8' 3<&3D856' @=353=='' ?>=,' T' :3' C;883<93=' K' ?< 83' ;' < 7923228' ;29=:' .?9823==' T' ?3<3' ;55' 8 ' =7;55K' 8:36' ?3<3' =' 5 ?' 8:;8' 8:36' 494' 2 8' <3B328' 8:3' H;83=' ;24' =89.338=' ?:9D:' 8:36' 43&32434' &< 7' C392H' 32&95;434K' 8:3' H@2=' C392H' 5;D34' ' 8 8 ' ?3<3' 7@D:' 3G =34' ;24' 9B3<3' 4 792;834' C6' 8:3' ;<89553<6' ?:9D:' 8:3' 3237 6' ;&83<?;<4=' 5;D34' 2' 8:3' :9H:' H< @24' W9,' 3,' 8:3' 389< ' :39H:8=],' 593' 5 ?' ;<; 38=' ;24' 8:3' ?;28' &' < <89 2' C38?332' 8:37' ;24' 8:39<' C;2J@3883=' 53&8' 8:3' 92&;28<6' @2=:3583<34K' 924334' 8:36' ?3<3' :;<7 34' <;8:3<' 8:;2' :35 34' C6' 8:3' ? <>=' & <' 8:3' = 59283<=' &' 8:3' ;B92H.=8 23=' ?:9D:' & <7 34' 8:3' ;<; 38=' < B34' 7 <3' 43;456' 8 ' 8:3' H;<<9= 2' 8:;2' 494' 8:3' 3237 6A=' D;22 2.C;55=,' :3' C;883<93=' ?3<3' 8 ' 5 ?' ';8' 8:3' &5;2>=' ;24' 5;D34' =' D5 =3' 8 ' 8:3' C@95492H=' 92' 8:39<' <3;<' 8:;8' 8:3' H@2=' D @54' 2 8' 3;=956' C3' ? <>34' 2 <' 8:3' 92&;28<6' =@ 9*8=' 7 B3' &<3356,' :3' H;83=' C3:924' C392H' ;55' &' :3?2' =8 23' 3B3<6' C;55' 8:;8' =8<@D>' 8:37' =328' =@D:';' =:?3<' &' &<;H7328=' &5692H' 8:;8' 8:3' 3&&3D8' ?;=' 59>3' H<; 3K' 98' & <D34' 8:3' 43&3243<=' 8 ' 593' &9;8' ;24' 3B32' 8:32' D;@=34' 83<<9C53' 5 ==' A' 8' 7;6' C3' ;4434' 8:;8' 2 8' 256' B3<3' 8:3' B <>=' @2=D93289&9D;556' 3G3D@834 .C@8' 8:;8' 8:3' 7 =8' 89<3= 73' <3=@58=' ?3<3' < 4@D34' C6' 8:3' 79=H@9434' 323<H6' &' 3<= 2=' ?:' 8:<3?' @ ' C;<<9D;43=' <' 4@H' D@8892H=' C3:924' 8:37' = ' 8:;8' 98' B;=

' 3 <8' 2' 8:3' 43&32D3=' &' ;4<94' C6' 8:3' @>3' &' 2&;;8;4 ' J@ 834' 92' <83D:3' 0999,' L##' L# P,

B3<6 : ;<4 8 =324 @ <392& <D3 7 328= \ ; 24 J@983 9 7 ==9C53 8 ? 98 : 4<; ? 8 : 3 HB 7 = &< 7 23 C ; 883<6 & < @=3 92 ; 2 8 : 3<,

8 ? ; = 2 ; 8@<; 5 8 : ; 8 8 : 3=3 =35&.8 ; @H : 9b 32H9233<= = : @54 23H53D8 8 : 3 23 7 =8 9 7 <8 ; 28 928 92 8 : 3 43&32D3= & ; 4<94, : 3 389< : 39H : 8= ? 3<3 8 : 3 >36 &8 : 3 D986 9&8 : 36 ? 3<3 5 =8 8 : 3 ? : 53 5 ; D3 5 ; 6 32 8 C 7 C ; <4 7 328 &< 7 8 : 3 4 7 92 ; 892H H< @24, @8 2 8 : 92H ? ; = 4 23 : 3<3 = ; B3 8 : ; 8 8 : 3 54 <32D : ? <>= < @24 8 : 3 &; D8 <6 & ; : 92 ; ? 3<3 <3 = 7)34 8 : 3 C@95492H= &8 : 3 ; 5 ; D3 C ; <<; D>= ; 24 : = 98 ; 5 92 8 : 3 B9D92986 C ; <<9D ; 434 ; 24 ; 5 ? D 2892@ @= 3 ; <8 : ? <> D 2=8<@D834 < @24 8 : 3 =@ 7 7 98 &8 : 3 : 955, 8 = : @54 : ; B3 C332 8@<234 928 ; <3H@5 ; < 328<32D : 34 D ; 7 9&8 : 3 D986 ? ; = <3 ; 556 8 C3 43&32434,

: 3 -@28 ; & 3&32D3 494 98= C3=8 8 <3=3<B3 <43< ; 24 928< 4@D3 49=D9 5923K ; 55*8 : 3 , ; < 7 34 7 32 ? 3<3 ; 9) ; 434 92 8 : 3 <; 4 8 54 &&8 928 C ; 24= ; 24 ; 55 8834 8 : 39< =8= ; < @24 8 : 3 D9<D@ 7 &3<32D3 &8 : 3 D986, @8 8 : 3<3 ? 3<3 7 ; 26 9453 : ; 24= ; 24 7 @D : D 2&@=9 2K 98 ? ; = 923B98 ; C53 8 : ; 8 7 C= = : @54 D 553D8 ? 98 : 8 : 3 @=@ ; 5 D 2=3J@32D3=, <93= &T <3=9= 2K ? 3<3 < ; 9=34 = 7 3 : @=3= ? 3<3 = ; D>34 ; 994 ; 8 53 ; =8 23 ; 8< D9 @= 7 9@43< ? ; = D 7 7 98834, : 3 ; <J@9= &3<; 53= ? ; = <3=94328 &8 : 3 =@C.D 7 7 98833 ? : 9D : 8 : 3 -@28 ; : ; 4 ; 92834 8 =@ 3<928324 8 : 3 7 ; 2@&; D8@<3 ; 24 49=8<9C@89 2 &; 7 7 @2989 2, 7 2H 8 : 3 D ; <8<94H3= H9B32 @8 8 8 : 3 3 53 = 7 3 ?3<3 & @24 92 ? : 9D : = ; 24 : ; 4 C332 =@C=898@834 & < ?43< < C ; C56 8 : 36 ?3<3 <359D= &= 73 3886 93D3 & 3D@5 ; 89 2 4 ; 892H C ; D> 8 8 : 3 897 3= &% 4 6,)) 32 8 : 9= ? ; = 49=D B3<34 ; &&@A9 @= 7 C < ; 2 8 8 : 3 : @=3 &8 : 3 7 ; <J@9= C3 ; 8 : 97 8 43 ; 8 : . ; 24 4<; HH34 : 9= D < =3 8 : < @H : 8 : 3 =8<338= 2 ; : @<453

&8 : 3 @5 ; D3 & ; 4<94 ? ; = &@55 &C5924 =35&.D 2&9432D3 ; 24 97 ; H9234 8 : ; 8 98, : ; 4 8 : 3 ?3<3 C3 ; 8 &&8 : 3 ; == ; @58 &\ ; 53 2 98= 53 ; 43<= ?3<3 92 ; 7 @D : 7 <3 43= 24328 &9<; 73 &7924, <5 ; ? ; = 23 &8 : =3 ? : ; 4 X 9234 8 : 3 ; 8<9 89D ; <86 73<356

; 93< D ; 55= 3<; 53= T ; <3= 3D8 ; C53 54 H323<; 5A S C@8 ; = <3&9 <37 ; <>= 09, I# P : 3 ? ; = 2398 : 3< 54 2 < ; 7 9598 ; <6 &&9D3< &; 26 <; 2> 2 < <3= 3D8V ; C53, 3 ? ; = ; 7 ; 2 &8 &; = : 9 2 2 834 & < : 9= 59D3289 @= 59&3 ; 24 8 : 3 7 C ? : 9D : 7 @<43<34 : 9 7 9= = ; 94 8 : ; B3 C332 : 3 ; 434 C6 : 9= 49=D ; <434 79=8<3==, <83D : 3 =@HH3=8= 8 : ; 8 8 : 3 = ; 24.D ; <8<94H3= ?3<3 D 2=8<@D834 & < 8 : 3 @< =3 &<@9292H : 97 ; 24 8 : ; 8 8 : 3 ? : 53 C@=923== ? ; = ; 93D3 &<9B ; 83 B32H3 ; 2D3,) : 3 7 ; <J@9= : ; 4 2D3 C332 ; B3<6 @5 ; < D : ; <; D83< ; 7 2H 8 : 3 5 ?3< D5 ; ==3= C@8 : ; 4 5 =8 D<3498 C6 = : ?92H 598323== 8 @<; 8,

C3D;@=3' :3' 8: @H:8' 98' ?;=' 8:3' ?92292H' =943K' :3' ?;=' 433 56' 49=H@=834' ?98:)' :97=35&' ;24' ?;=' ;:A3;46' D 2837 5;892XH) 8:3' 8<;98 < @=')43=3<89 2'8' 8:3' 32376' ?:9D:' :;=' D B3<34' :9=' 2;7,3' ?98:' 383<2;5' 49=H<;D3,' ;=835;<' =3374' 8' :;B3' C332' ?3;>' ;24' 4 ?2:3;<834,' :3' @>3' &' 2&;28;4' ?;=' 32 @H:' &';'= 5493<8' =33' 8:3' : 353==' 923&&9D932D6' &'8:3' 73;=@<3=' &'43&32D3' ?:9D:' :;4' C332' ;4 834,' :3' 256'D:;2D3' &'=;B92H' ;4<94'?;=8' :@<<6'@' 8' 98=' ;94'8:3'8? ' &9354.;9A793=' ?:9D:' ?3<3' ?98:92'8 @D: 8:3' 54' 24;5@=9;2'49B9=9 2='02 ?'@243<' ;' 32;P' ?:9D:' C6' <43<=' &'8:3' @ <373' -@28;' ?3<3' 7;<D:92H' &< 7' ;5;8;P74' 2' 8:3' D; 98;5' ;24'8:3'< @834'C=74=' &' 3<349;';24' ;2'-@;2';8' 3H B9;,' <H328' ; 3;5=' ?3<3'=328'8' C 8:' &'8:3=3' :=8=' 8' <3==' & <?;<4'?98: @8' *435;6K' 2&;28;4' :97=35&'< 43' @8'8' 7338'8:3';<76' &'8:3' 328<3' ?:9D:' 2' 8:9=' 4;6'W 3D,']' :;4'2 8'5 2H' ;==34' 9H@32R;'92' 98=' <38<3;8' ;24' ?;=' =8955' 23;<56' 39H:86' 7953=' &< 7' 8:3' D; 98;5' 3' 738'98';8'%@;4;5;X;<;' 2'8:3'23G8' 4;6'92'B356'C;4' D 24989 2';24' 7@D:' <34@D34' C6' 5 2H' 7;<D:3=' ;24' =8;<B;89 2K' ?98:' 8:3' D 5 @<=' 8:3<3' ?3<3' 256' " ###' & 8';24' $ ###' :<=3' ;24' 8:3=3' ?3<3' 92' ;'=8;83' &':;5&.43B35 34' 7@8926,' :3'<3=8' &'8:3'$# ###' 732' ?:' :;4' 3=D; 34' &< 7' @435;' ?3<3' <;2H92H' 92' =7;55' C;24=' B3<,8:3' D @28<6.=943'92'=3;<D:' &'& 4';24'?3<3'2 8',<;55934' & <' 7;26'4;6=,' :3<3'?39=2 8' 7@D:'8'C3':' 34'& <'&< 8:'8:3' ;<76' &'8:3' 328<3' ;24' 98,' ?;=' 3B94328' 8:;8' 98' D @54' 2 8' <3;D:' ;4<94'8955' 3D37V C3<' I' <'L,' :3'8< =' &' ;2' -@;2';24' 3<349;'?3<3'2 8'=';&;<' 49=8;28'C@8'3B32'8:36':;4' &9&86.&9B3'7953=' 8' 7;<D:'&< 7' 3H B9;' ;24 ;=' 98'8@<234' @8 8:3'D; 98;5':;4'&;5532'C3& <3' 398:3<' &'8:3' &9354.;<793=' D @54' ==9C56' D 73'8' 98=' ;94,' 89' 7 <3' &<@9853==' ?3<3'8:3';8837 8=' 7;43';8'8:3'5;=8' 7 7328'8' 924@D3' 9<' - :2' <3'8' C<92H'@' '8:3' <989=:'3G 34989N2;<6'& <D3'&< 7' ;5;7;2D;' :3 ?;=' #' 7953=' ;?;6' ;24' D @54' 2 8' :;B3' ;<<9B34' C3& <3' 3D37C3<' '8:<33' 4;6=';&83<'8:3'D; 98@5;89 2':;4'C332'=9H234, ; 53 2'43;58'?98:'8:3'92=@<H328=' &' ;4<94'92';'B3<6'=@7 7;<6' 7;223<,' 2' 3D37C3<' ;='?3' :;B3' ;5<3;46'=332 :9=' B343883=' ; 3;<34' C3& <3' 8:3' D986K' 2'8:3' 7 <292H' &'8:3'=3D 24'8:3' 4<;H 2=' &' ;: @==;63';24' ;8 @<. ;@C @<H'D;73'@ '92'& <D3' ;24'92B3=834'8:3'2 <8:3<2';24'3;=83<9<&< 28=' &'8:3'D986,' 8'2 2' 8:3' 7 3< <':97=35&' ; 3;<34' ;24'5;83' 92' 8:3' ;K&37 2'8:3' 92&;28<6'D 5@7 2=' &'/9D8 <A=' D < =,' 3D37C3<'$'?;=' 23' &' 2;V ;<83A=' 5@D>6' 4;6=' C392H'8:3' ;229B3<=;<6' &' @=83<598R' ;24' :3' :;4'924@5H34'92';'&;928' : 3'8:;8';2' 32'8 ?2'59>3'8:3' ;29=:

D; 98;5 7 9H:8 4 :99 8:3 D @<83=6 &=9@ 3243<92H ?98: @8 ;C5 ? 59>3)/9322;92 M# 3<592 92 M#N, DD <492H56 :3 =328 ;
=@7 7 2= 8 8:3 -@28;92 8:3 ;&83<2 2 C@8 8:3 ;29;<4= ?3<3
92 2 7 4 & <6935492H, %323<;5 28C<@2 ? : < 43)@ 8 8:3
H;83= ?98:8:3 ? :983 &5;H ? ;= 23;<56 7 CC34 C6 32<;H34 3;=;28= ;24 8:3 ;943.43.D;7 ? : 8 >8:3 49= ;8D:928 8:3 D986 ?;= 256 =;B34 &< 7 D3<8;92 43;8:C6 8:3 3G3<89 2= & = 73 ;29=: &&9D3<=
&8:3 5923, :3 -@28;=328 :97 C;D>?98:8:3 :;@H:86 <3 56 8:;8
T 8:3 3 53 & ;4<94 ?3<3 <3= 5B34 8 C@<6 8:37=35B3= @243<8:3
<@92= &8:39< : @=3= <;8:3<8:;2 8 3<7 98 8:3 <32D:8< = 8
3283<8:39<D986,A

92D3 8:3 T=@2 & @=83<598R A ?;= 2 8 43=89234 8 =38 @ 2 8:3
8<9@7 :;5 328<6 &8:3 7 3< <928 8:3 ;29=:D; 98;5 98 C3D;73
23D3==;<6 8 <3 ;<3 & <8:3 @=3 &&<D3, =;<359792;<6& <;2
;&8;D> 2 8:3 &55 ?92H 7 <292H ; 9==3A= 49B9=9 2 &/9D8 <A=D < =
?;= =328 &<?;<4 8 8@9A2 8:3 ;29;94= @8 &7;26 9=5;834 : @=3=
92 &< 28 &8:39<5923 &328<32D:7328= ?:9D:?3<3 C392H :354 ;=
A ;4B;2D34 =8=, :3 H< @24 C392H D53;<34 <3 ;<;89 2= D @54 C3
7;43 & <8:3 ;==;@58, :3 7 7328 8:;8 2; ;<83 D;=8 363= 2
8:3 5;D3 :3 <3;59R34 8:;8:3 :39H:8= &8:3 389< ?3<3 8:3 >36 &
8:3 =989 2, 243<D 63< &8:3 29H:8 8:3<3& <3 8:9<86 H@2= ?3<3
<;2H34 92 5923 =983 8:3 ?3;>3;<8:? <>= ?:9D:D< ?234 8:3 37 92V
32D3, <89553<6 92 =7;553<& <D3 ?;= 5;D34 92 &< 28 &=3B3<;5 &
8:3 2 <8:3;9 ;24 3;=83<2 H;83= &8:3 D986 8 49=8<;D8,8:3 ;883289 2
&8:3 H;<<9= 2 &< 7 8:3 D<989D;5 928, 3& <3 4; B2 8:3 7 3< <
=328 92 ;2 8:3<=@7 7 2= 8 =@<<3243< C6 8:3 :;24= &;2 ;<89553<6
&&9D3<?: ;4 C332 D; 8@<34 ;8 8:3 7 =93<<;, 8 9= D53;<8:;8
:3 ?9=:34 9& ==9C53 8 3283< ;4<94 ?98: @8 C392H C59H34 ,8
4359B3<@ 8:3 D986 8 &9<3 ;24 '=? <4K 98 ? @54 C3 @2& <8@2;83 9& :9=
C< 8:3<A= =3D 24<39H2 ?3<3 8 C3H92 @243<=@D:@2:; 6 D 24989 2=,
@8 98 9= :;<4 8 @243<=8;24 : ?:3 D @54 =@ =3 8:;8*8:3 ?;<59>3
&<32R6 &8:3 ;29;<4= ? @54 :;B3 4934 4 ?2 C38?332 8:3 ;&83<2 2
& 3D3 7 C3<.;24 8:3 4;?2 & 3D3 7 C3<I, 55 8:3 <3 56 8:;8:3
C8;9234 ?;= ;< =;5 &< 7 8:3 ; 8;92.%323<;5 ;=835;<8:;8
8:3<3 =: @54 C3 ;=@= 32=9 2 &;<7= & <8?35B3 : @<= :3 = 53
CX3D8 &8:9= 435;6 ?;= 8 ;55 ?8:3 ;29=: &9354.;<793= 897 3 8
4<;?23;<3<8 ;4<94, 3D H29R92H 8:3 &;D8 ?:9D:?;= CB9 @=
32 @H: 8:3 7 3< <H;B3 <43<= & <;2 97 7349;83 ;==;@58,
D;22 2;43?;= 3234;H;92=8 8:3 H;83= & = R = 8:3 3D 538 =
- 932D;<<;5 ;24 =3B3<;5 8:3<= 2 8:3 2 <8:3<2 ;24 3;=83<2 =943= &

LNM P E / =

8 : 3 D986, 2=943<; C53 4; 7; H3 ?; = 4 23 8 8 : 3 ; 29= : 43&32D3= 'C@8 8 : 3=3 ; 88; D>= ?3<3 ; 55 =@C=949; <6, : 3 <3; 5 ; ==; @58 ?; = 4359B3<34 ; H; 92=8 8 : 3 389< : 39H : 8=, X : 3 : 3; B6 D; 22 2; 43 ?: 9D : ?; = 49<3D834 ; H; 92=8 8 : 3 ; 29= : ? <>= = 2 3234 =3B3<; 5 C<3; D : 3=, : 32 / 9 ; 883A= 49B9=9 2 &/ 9D8 <A= D < = ?; = =328 92 8 =8 < 7 8 : 3 =989 2 ; &3; 8 ?: 9D : 98 ; DD 7 59= : 34 7 8 : 8 : 3 H<3; 83=8 3; =3, : 3 H; <<9= 2 &8 : 9= ; 55.9 7 <8; 28 =3D89 2 &8 : 3 43&32D3= D 2=9=834 &; =92H53 C; 88; 59 2 &23?53B93= 8 : 3 3H9 7 328 &; RR; <34 ; 24 ; 7; == &; <7 34 D989R32=, : 36 ?3<3 =?3 8 @8 &8 : 39< ? <>= ; 24 @<=@34 4 ?2 : 955 928 8 : 3 <; 4 , <3==92H 2?; <4; 7 2H 8 : 3 ; B32@3= ; 24 & @28; 92= / 955; 883A= 49B9=9 2 8 >92 8 : 3 <3; < 8 : 3 43&3243<= &8 : 3 8 : <33 239H : C @<92H*H; 83= ; 24 8 : 32 @=: 92H 92 ; 7 2H 8 : 3 : @=3= &8 : 3 D986 7; 43; 5 4H3 7 328 92 8 : 3 ; 5; D3 &8 : 3 @>3 & 3492; 359 ; 24 =3B3<; 5 8 : 3<5; <H3 C@95492H=, : 3<3 ?; = 2 ?2 8 : 92H C38?332 8 : 3 <32D : ; <7 6 ; 24 8 : 3 : 3; <8 & ; 4<94 =; B3 8 : 3 =8<338.C; <<9D; 43= ? : 9D : 8 : 3 @5; D3 : ; 4 8 : < ?2 @ C3 : 924 8 : 3 <9H92; 5 5923= &43&32D3,

& ; 53 2 : ; 4 D: =32 8 =324 928 8 : 3 &9H : 8 8 : 3 <3=8 &/ 9D8 <A= * D < = ; 24 : ; 4 @=: 34 & <?; <4 8 : 3 ?: 53 &: 9= ; <8955396 8 8 : 3 34H3 &8 : 3 D; 8@<34 : 39H : 8= ?98 : <43<= 8 = : 355 8 : 3 D986 8 : 3<3 D; 2 C3 598853 4 @C8 8 : ; 8 ; 4<94 7 9H : 8 : ; B3 C332 =8 <7 34 3<3 29H : 8&; 55, 8= C< ; 4 =8<338= 494 2 8 H9B3 8 : 3 &; D9 : 893= 43&32D3 8 : ; 8 ; <; H ==; : ; 4 ==3==34 ; 24 8 : 3 7 3< <; ; 4 ; 8 : 9= 49= = ; 5 2 8 ; ?3; > ; 24 : 383< H323 @= ; <7 6 =@D : ; = /3<493< : ; 4 D 7 V 7; 2434 C@8 7 <3 8 : ; 2 L# ###8 B383<; 2 8< =, 9=*; <89553<6 8 : ; 4 2 8 : 3 389< ; B; 28; H3.H< 97 4 =@D : ; = 494 2 8 3G9=8 @8=943 8 : 3 <; H 23=3 D; 98; 5, 3B3<8 : 353== 8 : 3 7 3< < 494 2 8 <3== 8 : 3 ; 88; D> ; 24 2D3 7 <3 =328 92 ; 43 7; 24 & <8 : 3 =@<<3243< &8 : 3 5; D3 ; 8 ; C @8 353B32 92 8 : 3 7 <292H &3D3 7 C3< I,

: 3 @5; D3 & ; 4<94 494 2 8 638 <3D H29R3 98= ?2 & <5 <2 =8; 83 ; 24 $ >33 92H @ ; B9H < @= &@=955; 43 ; 8 8 : 3 H; 83= ; 24 C3 : 924 8 : 3 C; <<9D; 43=, 8 : ; 4 =@&&3<34 =3B3<3 5 == &< 7 8 : 3 <32D : ; <89553<6 ? 92H 8 8 : 3 @2=D932 89&9D D 2=8<@D89 2 &8 : 3 43&32D3= C@8 ? ; = 2 8 638 <3; 46 8 69354, @8 8 : 3 -@28; ? ; = 92 ; ,B3<6 49&&3<328 &<; 7 3 & 7 924 8 : 3 7 9598; <6 732 8 : < @H : 56 @243<=8 4 8 : 3 =98@; 89 2 ; 24 ?3<3 3G 3D892H 8 =33*; : @24<34 H@2= 32 &< 7 8 : 3 D<3=8 &8 : 3 389< ? 98 : 92 8 : 3 23G8 &3? 792@83=, : 39< D9B959; 2 ,D 553; H@3= 8 : 3 7; H9=8<; 83= ; 24 5 D; 5 2 8; C53= ?3<3 5 >92H & <V ?; <4 ?98 : 2 32B9; C53 &33592H= 8 8 : 3 D 2&5; H<; 89 2 ; 24 8 : 3 H323<; 5 =; D> 8 : ; 8 =337 34 8 C3 ; 8 : ; 24, 2 = : <8 8 : 3 943; &<9B; 5592H

;<;H ==; ?; &;< &< 7 8:39< 8: @H:8=, :32 ; 53 2 53883< &&3<92H T ;<4 2 8 8:3 8986 & ;4<94 < 83D89 2 ;24 =3D@<986 & < 8:3 3;D3&@5 92:;C98;28= <3= 3D8 & < 8:3 D:7 D:3= ;24 8:3 D539 H6 C59B9 2 & < 8:3 ;=8 *?; 4359B3<34 ,8 8:3 -@28; 8:3 7; <986 43D9434 8 8<3;8 ?98: :97, :36 =328 @8 ; 23H 89;8 < %323<;5 <5; <3 <3=32892H 8:3 7959839<6 3537328 ;24 2 3<2;<4 <9;<83 2 C3:;5& & 8:3 D9B95 ;@8: <9893=, ; 53 2 8<3;834 8:3=3 4353H;83= 8 23 & 8: =3 =D323= & =97@5;834 <;H3 ?:9D: :3 ?; = =@D: ;2 ;43 8 ;8 < 4@D92H :9= :;<;2H@3 ?; J@983 92 8:3 =8653 & 8:3 &;7 @ ;55 D@89 2 8 <4 :98? <8: ;24 8 3883 7 9D:, 8 ?; 23D3=V =;<6 :3 8: @H:8 8 83<<9&6 8:3 4353H;83=, DD < 2H56 :3 538 5 =3 2 <5; ; =8 <7 & 5;<H356 9<<353B;28 ;C@=3 =8<92H92H 8 H38:3< ;DD@=;89 2 D 2D3<292H 8:3 C 7C;<4 7 328 & 8:3 <32D: &5338 ;8 ;49R 8:3 B9 5;89 2 & 8:3 2B3289 2 & ;6532 8:3 3=D; 3 & ; 7;2;A 8< = &< 7 8:3 ;589D ;24 0=8<;2H3=8 & ;55^P 8:3 79=D 24@D8 & 8:3 ;29=: 8< =92 @==955 2 497 92H 8:3 ?;< & "I. , 3 32434 C6 43D5;<92H 8:;8 @253== 8:3 D986 :;4 C332 =@<<3243<34 C6 =99 AD5 D> 2 8:3 & 55 ?92H 7 <292H 3B3<6 7;2 8;>32 92 ;<7= : @54 C3 @8 8 8:3=? <4,

<5; ?; = ; B3<6 89 7 94 7;2 0 7 <3 B3< :3, ?; = ; :<3;46 7 3498; 8V 92H =@C 79==9 2 8 0 92H - =3 : :3 <38@<234 8 8:3 -@28; 92 ; =8;83 & ;C= 5@83 D ; =3 ;24 H;B3 =@D: ; :9H:56 D 5 @<34 ;DD @28 & 8:3 7 3< <A = ?<;8: ;24 & 8:3 2@7C3< & 8:3 <32D: ;<76 8:;8 8:3<3 ?; = 2 &@<8:3< 8;5> &)3=9=8;2D3, :3 7;92 49&&9D@586 ?; = 8 =8 8:3 < 79=D@ @= &9<92H ?:9D: ?; = =8955 H 92H 2 ;8 8:3 @8 =8= ;24 8 924@D3 8:3 7 <3 3G;= 3<;834 =3D89 2 & 8:3 7 C 8 J@98 8:3 D986 < 8 5;6 4 9B2 8:39< ;<7=, ;26 & 8:37 8 > 8:3 & <73< ;583<2;89B3 8:3 ;<J@9= & ;=835;< <3= 5B34 8 ;B 94 D; 89B986 H 8 8 H38:3< :9= :;24&995 & <3H@5;< 8< = ;24 &534 92 :;=83 C6 8:3 < ;4 8 ?;<4= =8<37;4@<; :3 ?; = & 55 ?34 C6 = 73 8: @=;24= & 3;=;28= ;24 C6 ; D 2=943<;C53 2@7C3< & 3<= 2= ?: 8: @H:8 8:37=35B3= 8 7@D: D 7 < 79=34 8 C3 ;C53 8 <37;92 C3:924, ;B92H H 8 <94 & 8:3 <3D;5D98<;28= 8:3 -@28; 4<3? @ ; & <7 & D; 98@5;89 2 92 353B32 ;<89D53= ;24 =328 98 @8 8 8:3 <32D: D;7 , ; 53 2 ;2G9 @= ;C B3 ;55 8:92H= 8 H38 ==3==9 2 & 8:3 D986 ;= = 2 ;= ==9C53 ;DD3 834 98 ;57 =8 ?98: @8 49=D@==9 2 8: @H: 98 D 28;9234 7;26 D5;@=3=,3289<356 989.

* 8T;2 8:3< 7 9598;<6 &&9D3< A ;= ; 93<=;6=,

** 7C<3 43 D <;R 2 @=95;29 7 3 ;@2J@3 43 &93<; 6 ;&<9D;2; &9H@<; A =;6= <3&9 09, I# P,

M#M]' ' ' ' - A ' ' L

7 =8' 79=3<;C53' ;24' 49= <H;29R34' D 24989 2 ;8' @32D;' :3' ;<89553<6' @2;C53' 8 ' 53;B3' 803' :9H:.< ;4 ' :;4' C332' =328' &&' 8:<33' 4;6=)' C3& <3' &< 7' %@;4;5;X;<;' 8 ?;<4=' 8:3' >92H4 7' &' @<D9;' ;57 =8' ?98: @8' ;2' 3=D <8K' C6' ;' 93D3' &' 3G8<; <492;<6' 5@D>' 9Z3=D; 34' ?98: @8' =3392H' ;2' 32376,

:3' 4 92H=' &' 8:3' 49= <H;29R34' 49B9=9 2=' &' ;2.' -@;2' ;24' 3<349;'?:9D:';4'7;<D:34'&< 7' 3H B9;' 2' 3D37C3<'$'?3<37@D:' 7 <3' 49=D<3498;C53,' ;83' 2' 8:3' 8:9<4' 8:36'<3;D:34' 8:3' =D@<9;5' \= 73' 8:9<86' 7953=' &< 7' ;4<94' ;24' ?3<3' 738' C6' &@H989B3=' &< 7' 8:3'D; 98;5'?:'<3 <834'8:;8'8:3' 389< ';4'C332'=8 <734';24'8:;8' 8:3' -@28;' &' 3&32D3' ?;=' 43C;892H' ;C @8' ;' =@<<3243<,' :3' 8? ' D 7 7 7943<=' ?3<3' 4 @C892H' ?:38:3<' 8:36' @H:8' 2 8' 8 ' 8@<2' C;D>' ?:32' 8:39<' 8< =' C< >3' @8' 928 ' 7@8926' 92=9=892H' 8:;8' 8:3' 7;<D:' 2' ;4<94' 7@=8' C3' D 2892@34,' &83<';' =D323' &' H<3;8' 49= <43<' 8:3' H323<;5=' H;B3' 92 ';24' <3=@734' 8:39<';4B;2D3' 2' 8:3' 7 <292H:' &' 8:3' & @<8:' X@=8' ;8' 8:3' 7 7328' ?:32' <5;' ?;=' 3292H' 8:3' H;83=' 8 ' ; 53 2,' :36';:;4' 256' H 23';'&3?'7953=' ?:32' D3<8;92' 23?=' &' 8:3' D; 98@5;89 2' ?;=' <3D39B34,' :3<3' & 55 ?34';' 49=H<;D3&@5' =D323' 8:3' D<6' &' 8<3;= 2' <;2' 4 ?2' 8:3' <;2>=K' = 73' C;88;59 2=' 49=C;2434' 8:37=35B3=' 8:3<=' ;88;D>34' 8:39<' ?2'\ &&9D3<=' ;24' 8:3' ?: 53' 7;==' 49== 5B34';24' ?328' &&' 92' ;29D' 8 ' ;5;B3<;' 53;B92H' 98=' ;<89553<6' ;C;24 234' C6' 8:3'T?;6=943,' :36' :;4' 2 8' 3B32' =332' ;'" <32D:' B343883' <' &9<34' ;' =92H53' =: 8 ',638' 8:36' &534' 92' @883<' < @8' & <' =9G86' 7953=' ;24'j 256' :;5834' ?:32' 8:36' D @54' <@2' 2 ' &@<8:3<,' 3B32' <' 39H:8' 8: @=;24' 732' @8' &' 8:3' 8? ' ;<793=' ?3<3' H 8' 8 H38:3<' ;8' ;5;B3<;' 2' 8:3' =9G8:' C@8' ?:32' 23G8' 7 <292H' ;2' -@;2' ;8837 834' 8 ' 8;>3' @ ' 8:3' D 7 7 ;24' ;H;92' 8:36' <;9=34' 8:3' 949 89D' D<6' 8:;8' 3' ?9=:34' 8 ' 53;4' 8:37' & <?;<4' 928 ' 8:3' 794 f8' & ; 53 2A=' ;<793=' 92' <43<' 8 ' & <D3' 8:37' 8 ' =@<<3243<' :3' @2& <8@2;83' H323<;5' ?;=' :@2834' 4 ?2' =: 8' ;=' :3' ?;=,' 8<692H' 8 ' 3=D; 3' &< 7' ;'?924 ?' ;24' :@2H' &< 7' ;' 5;<H3' 357.8<33'X@=8' @8V =943' 8:3' 8 ?2' j :9=' ?;=' 8:3' 7 =8' 49=H<;D3&@5' =D323' &' 8:3' ?: 53' D; 7 ;9 '92' M#M,' 8' ?;=' 2 8' & <' = 73' 4;6=' 5;83<' 8:;8' 8:3' <37V 2;28=' &' 8:9=' 79=3<;C53' ;<76'?3<3' <34@D34' 8 ' = 73' =:;4 ?' &' 49=D9 5923' ;24' D 2=32834' 8 ' 7;<D:' @243<' 8:3' D 7 7;24' &' 23?' H323<;5=,

8' 9=' D53;<' 8:;8' 3B32' 9&' ;4<94' :;4' :354' @8' & <' ;' 4;6' <' 8? ' 7 <3' C6' 4928' &' 43= 3<;83' =8<338.&9H:892H' 98' ? @54' :;B3' H 8' 2 ' 3&&3D89B3' ;94' &< 7' 8:3' ;<793=' 92' 8:3' &9354,' 3' D;22 8' 8:3<3& <3' =;6' 8:;8' 8:3' -@28;' &' 3&32D3' 494' 7@D:' :;<7' C6' 98=' 8;73' =@<.

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<3243<, < 7 8 : 3 7 9598 ; <6 928 &B93? ; 4<94 ? ; 9243&32=9C53K 2 8 : 3 8 : 3< : ; 24 98 ? ; 37923856 43=9< ; C53 &< 7 8 : 3 5989D ; 5 928 &B93? 8 : ; 8 ; 53 2 = : @54 2 8 3283< 8 : 3 5 ; D3 @2 =34 8 C3 <3D39B34 ; 8 /9322 ; < 3<C)2 C6 C=3J@9 @ 43 @8 ; 89 2= 7 @8 : 92H D 7 597328= ; 24 C3 ; <92H 8 : 3 >36= &8 : 3 D986 2 =95B3< = ; 5B3<=, 8 ? ; &; < C3883< 92 8 : 3 5 2H <@2 ,& < ; 92 ; 24 & < @< 3 8 : ; 8 : 3 = : @54 C3 <3D39B34 ? 98 : D ; 22 2.C ; 55= ; 24 & <D34 8 &9H : 8 : 9= ? ; 6 92, : 9= =9 7 53 &; D8 7 ; 43 ; 55 : 9= &9D89 2= 8 8 : 3 3&&3D8 8 : ; 8 : 3 ? ; 256 =34 C6 8 : 3 <; CC53 8 : 3 7 2>= ; 24 8 : 3 ; H328= &2H5 ; 24 ; 3 ; < ; C=@<4, 3 D @54 2 8 ; &83< 8 : 9= <3V 8324.8 928< 4@D3 : 9= C< 8 : 3< - =3 : ; ; 53H9897 ; 83 = B3<39H2 J@93856 <38@<292H 8 : 9= 5 6 ; 5 D ; 98 ; 5, 7 @D : ? ; = =3D@<34 C6 8 : 3 8? 4 ; 6=K <3=9=8 ; 2D3. & ; 4<94K 2 8 : 3 8 : 3< : ; 24 ? : 32 2D3 8 : 3 <32D : ?3<3 92=943 8 : 3 D986 ; 24 &@<8 : 3< <3=9=8 ; 2D3 ? @54 : ; B3 ,32434 7 3<356 92 H323< ; 5 955 ; H3 ; 24 D 2&5 ; H< ; 89 2 98 ? @54 : ; B3 <3J@9<34 7 <3 8 : ; 2 ; <8 ; 2 <3= 5@89 2 & < 8 : 3 -@28 ; & H 2 &9H : 892H, & ; 4<94 : ; 4 C332 C@<28 59>3 =D ? 8 : 3 7 <; 5 3&&3D8 2 ; 92 ; 24 2 7 3 ? @54 2 4 @C8 : ; B3 C332 32 <7 @=, @8 8 : 3 : 383< H323 @= D @2D95 &? ; < D 7 =34 &49= 9<9834 &&9D3<= ; 24 5 D ; 5 2 8 ; C53= 8<37C592H & < 8 : 39< : 73= D @54 : ; <456 C3 3G 3D834 8 =33 8 : 9=, : 36 6935434 D 2=943<92H 8 : ; 8 8 : 36 : ; 4 ; 5<3 ; 46 4 23 32 @H : *C6 ? ; 6 &< 83=8 ; 24 3B32 B98 : ; <; H ==; 92 @< 7924 B3 = : @54 C3 5 8 : 8 =; 6 8 : ; 8 8 : 39< D ; 98@5 ; 89 2 B; = D@5 ; C53, : 3 23 = : ; 73&@5 8 : 92H ; C @8 8 : 3 =@<<3243< B; = 8 : ; 8 ?98 : 92 ; &3?4 ; 6= C 8 : <5 ; 8 : 3 7 9598 ; 96 : 3 ; 4 &8 : 3 43&32D3 ; 24 =3B3<; 5 &8 : 3 D : 93& D9B95 &&9D9 ; 5= ? <3 ; 553H9 ; 2D3 8 - =3 : 2 ; ; <83 ; 24 8 >=3<B9D3A@243< : 97, @D : 8<3 ; = 2 2 8 : 3 ; <8 &< 7923288 732 494 7 <3 8 32D @< ; H3 8 : 3 92B ; 43< ; 24 8 49=V : 3 ; <832 ; 92 ; 24 : 3< ; 5593= 8 : ; 2 8 : 3 5 == &: ; 5& ; 4 R32 C ; 8853=, < ''? : 32 2D3 43=3<89 2 C3H92= 2 23 >2 ?= ? : 3<3 98 ?955 =8 ; 24 3B3<6 7 ; 2 49=8<@=8= : 9= 239H : C @< ; = ; == 9C53 8< ; 98 <, ; 4<94 ; = ?3 : ; B3 ; 5<3 ; 46 = ; 94 ? ; = 2 8 ; 8<@3 2 ; 89 2 ; 5 D ; 98 ; 5 2 < ? ; = 98= 5 == ; & ; 8 ; 5 C5 ? 5 C@8 8 : ; 8 98= D : 93& 43&3243<= = : @54 = : ; 7353==56 8 : < B B3< 8 : 3 D ; @=3 &8 : 39< D @28<6 ; 24 X 92 8 : 3 32376 ? ; = ; =67 8 7 &8 : 3 7 =8 49<3 ; 24 4 456 = <8, @8 & <8@2 ; 8356 8 : 3 &; 83 &8 : 3 D @28<6 ? ; = 2 8 92 8 : 3 : ; 24= &98= D <<@ 8 C@<3 ; @D<; D6 C@8 92 8 : =3 &9&= 7 @D : .324@<92H 3 53,

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3D37C3<L8 3D37C39*$$8:3 7 3< <<37;9234&9G34 92 8:3 239H:C @<: 4 &;4<94, 3 494 2 8 =38853 4 ?2 92 8:3 <6;5 ;5;DN ;24 98 ? @54 =337 8:;8:3 7 ;43 2 7 <38:;2 23 <8? :@<<934 B9=98= &92= 3D89 2\8 8:3 D986 , 3 3=8;C59=:34 :97V =35& @8=943 8:3 H;83= ;8 :;7;<892 ;43= 5;83 ;24 B7D 7& <8;C53 D @28<6 :@=3 &8:3 @>3 &:&;28;4 ;24 43B 834 :97=35& 8 92D3==;28 43=>.? <> 8 ?;=:3<3 8:;8:3 4<3?@ :9= <X3D8= & <8:3 <3 <H;29R;89 2 &8:3 >92H4 7 &X@2 ;24 ;8 8:3 =;73 897 3 =38 :97=35& 8 8:3 8;=> &D 2=8<@D892H :9= 5;2= &D;7 ;9H2 ;H;92=8 8: =3 ;<8= &8:3 3292=@5;?:9D:=8955<37;9234@2=@C4@34, 2 =3B328332 4;6= @29283<<@ 834 C6 8:3 D;<3= &8<;B35 2; ;<83 D @54 H38 8:< @H: ;2 32 <7 @= ;7 @28 &C@=923==, 9= ?<4= ;24 4334= ;8 8:9= 3<9 4 ;<3 ?355 ?<8: =8@4692H & <8:3 59H:8 8:;8 8:36 8:< ? ;59>3 2 :9= B2 D:;<;D83< ;24 2 :9 D 2D3 89 2= &8:3 =8;83 ;24 8:3 2334= &;92,

9= &9<=8 ;D8 ?;=8 ;22@5 8:3 D; 98@5;89 2 ?:9D: :3 :;4 H<;2834 8 8:3 92:;C98;28= &;4<94, ;B92H =3<B34 98= @< =3 92 924@D92H 8:3 -@28; 8 69354 98 ?;= <7 856 B9 5;834, T :3 ;29;<4= :;B3 &;9534 8 D;<<6 98 @8A:3 ?< 83 T;24 D 2=943<

* 8 ;= 8:3 ;29;<4= ?:9= 3<34 C3D;@=3 :3 &3;<34 8:3 =895388 &= 73 &;2;89D;5 7 2> :@8 C3D;@=3 :3 ?9=:34 8 53;B3 8:3 5;D3 D53;<& <:9= C< 8:3< - =3 :, <8:3 D@<9 @= =8 <6 &:9= B9=98 8 8:3 < 6;5 ;5;D3 ;24 5 2H =8@46 &8:3 <8<;98 & :959 =33 <3&9 9, I#",

$ <]8:3 49=D 7& <8= &:;7;<892 =33 8:3 1+ o & 6# &3 <;48, A :@H:C35 2H92H 8 23 &8:3 <9D:3=8 2 C53= & ;92 98 :;4 2 8 ;=92H53 &9<3 5;D3 ;24 8:3 97 3<9;5 D @<893<= ;24 ;943=.43 ;7 :;4 8 =:9B3< 92 8:3 ;283.< :9= B3< 79=3<;C53

8:3 ?: 53 8:92H B 94 / >92H ;8 8:3 <3 =83< @= D5;@=3= ?:9D:: 3 : ;4 ;55 ?34 8 C3 92=3<834 92 8:3 4 D@7328 8:3<3 D;2 C3 2 4 @C8 8:;8 8:9= ?;= :9= 92832892 ;8 8:3 B3<6 7 7328 ?:32 :3 <;89&934 98, 8 ?;= ;=7 ;55 8:92H 8:;8 :3 =: @54 C<3;> 32H;H3V 7328= =@D: ;= 8: =3) 92 ?:9D: :3 : ;4 < 79=34 2 8 8 J@;<83< 8< = 92 8:3* 7 2;=83<93=0 <89D53 P < 8 7;928;92 ;55 3G9=892H &&9D9;5=92 8:39< 5;D3=0 <89D53 $P, @8 :;B92H H@;<;28334 =3D@<986 & < 8:39< 59&3 ;24 < 3<86 &<334 7 &< 7 ;<<3=8 ;24 &<33 3G98 ;8 8:39< 53;=@<3 8 =@D: 3<= 2= ;= D: =3 8 <37;92 C3:924 92 8:3 D986 98 ?;= =:;7353== 8 D 7 7 32D3 :9= < D33492H= ?98:; < =D<9 V 89 2 ;24 ;5 2H =3<93= &;<<3=8=, :3 59=8 &3<= 2= 43D5;<34 8<;98 <=,;24 D 2437234 8 5 == &59&3 ;24 H 4= ?;= 2 8 B3<6 5 2H 256 832 3<= 2= ?3<3 2;7 34 ;24 =3B32 &8:3=3 ?3<3 ;C=328 &< 7 ;4<94, @8 8:3 8:<33 8:3<= 8:3 <92D3 &;=835&<;2D 8:3 ;<J@9= &;28; <@R ;24 8:3 @28 &58;79<; ?3<3 =39R34 ;24 49= ;8D:34 928 <;2D3 =32832D34 8 97 <9= 27328 &<59&3, :3 ;<<3=8= ?3<3 ; 7@D: 7 <3 =3<9 @= 7;883<, 2 &5;H<;28 D 2V 8<;B32892 &8:3 83<7= &=@<<3243< 2; ;<83 @8 @243< 5 D> ;24 >36 ;55 8:3 737C3<= &8:3 @2D95 &8:3 2J@9=989 2 2 ?: 7 :3 D @54 5;6 :;24= 9<<3= 3D89B3 &?:;8 8:39< D 24@D8:;4 C332 4@<92H 8:3 <39H2 &8:3 @ <373 -@28;, 3 ;5= 43D5;<34 ;55 8:3 =@ 3<9 < &&9D3<= &8:3 ;<76 <3=94328 92 ;4<94 3B32 <389<34 B383<;2= 8 C3 <9= 23<= &?;<;24 59;C53 8 ;2=?3< ?98: 8:39< 23D>= & < 8:3 =;&386 &8:3 D; 89B3= &@ 28= D < =, 7 2H 8:37 ?;= 49=D B3<34 ;2 54 :/32D: * 4 8:3 ;<J@9= 43 ;928. 97 2 ?: :;4 3283<34 8:3 =3<B9D3 &:;<53= /;= &;< C;D> ;= "I ;24 :;4 8;>32 ;<8 92 8:3 5;=8 D;7 ;9H2, :3 7 3< < <3&@=34 8 D 2=943< :97 ;= ;29;<4 43D5;<34 8:;8:3 ?;= 23 &:9= ?2 =@CX3D8= :;4 :97 8<934 C6 D @<8.7;<89;5 ;24, D 2437234 :97 8 43;,8:, 55 8:9= ?;= 8 53;4 @ 8 23 &8: =3 49 @= D 73493= &7;H2;297986 ?:9D: 2; ;<83 = 73897 3= <;D89=34 & < 8:3 C323&98 &8:3 3498 < &8:3 ;928. 97 2A= 4;@H:83< ?;= ;4798834 8 8:3 97 3<9;5 <3=32D3 8 C3H & <:3< &;8:3<A= 59&3 ;24 8:3 7;=83< &8:3 ? <54 439H234 8 D 7.

* T ;D; 98@5;89 2 2A;6;28 ;= 383 832@3 ;< 53= :;C98;28= 43 ;4<94 3=8 7453 A ; 53 2 8 3959;<4 3D, ;1 & * & $ L NILP, 3 =D 54= 3559;<4 & < :;B92H ;55 ?34 8:3 4 D@7328 8 C3 <92834 ;24 5;D;<434 2 8:3 ?;55Y, B3<6 D 6 ?;= 8 C3 8 <2 4 ?2 ;8 2D3, 2 ?:;8 <3= 3D8 8:3 * ;29;<4= :;4 C< >32 8:3 8<3;86 :3 4 3= 2 8=8;83, 3 7;6 :;B3 <3&3<<34 8 8 933B;=9 2 & ;=835;<A= 8< =,

M#M] - / L

7 @83 8 : 3 @29= : 7 328 &8 : 3 T 8< ; 98 <8 97 <9= 2 7 328 & < 59&3 92 8 : 3 7 @28 ; 92.& <8<3== &- @G : 9= ? ; = ; <3 38989 2 &8 : 3 ; 8R&3548 ; &5 ; 9<= ; 8 3<592 ; 24 ; 928. 97 2 ? ; = 8<3 ; 834 3B32 ? <=3 8 : ; 2 8 : 3 97 & <8@2 ; 83 <@==9 ; 2 2 C537 ; 2 & M#N, 7 56 8 : 3 83243< 7 3<D93= &8 : 3 ?9D>34 ; <3 D<@35^

7 2H 8 : 3< 3<= 2= ? : ? 3<3 ; <<3=834 ?3<3 2 <9 ; = 2 <3=94328 &8 : 3 @2D95 & ; =8953 .8 : 3 @>3 & 8 7 ; 6 < ; 24 ; C @8 8 : 9<86 8 : 3< 2 8 ; C53=K = 73 ?3<3 @5897 ; 8356 =328 ; ? ; 6 8 \- / ; 2D3 8 : 3<= ; 55 ?34 8 H &9*33J ; &83< =?3 ; <92H ; 553H9 ; 2D3 8 - =3 : 2 ; <83,

55 8 : 3=3 73 ; =@<3= ?3<3 43=9H234 8 =8<9>3 83<< < 928 8 : 3 : 3 ; <8= &8 : 3 ; 29 ; <4=, @8 ; 8 8 : 3 =; 73 8979 3 8 : 3 7 3< < 9==@34 ; =3<93= &43D<33= 92 : 9= ?2 2 ; 73 ; 24 2 8 92 8 : ; 8 &: 9= C< 8 : 3< 8 : 3 898@5 ; < >92H ?X99D : ?3<3 92832434 8 D 2D959 ; 83 8 : 37 C6 C3=8 ?92H @ 2 8 : 37 D3<8 ; 92 8 ; 2H9C53 C323&98=, 3 >23?8 : ; 8 8 : 3<3 3G9=834 8 : 3 2@D53@= &; 9C3< ; 5 ; <86 92 ; 92 ; 24 : 34 8 4<; ? 98 B3< 8 : 9= =943 C6 928< 4@D92H D3<8 ; 92 7 @D : .233434 <3& <7 = 92 8 : 3 ; 4 7 929=8< ; 89 2 &8 : 3 D @28<6, 98 : 8 : 9= CX3D8 : 3 <37 B34 8 : 3 89<3= 73 9283<. < B92D9 ; 5 D89* 9 4@893= ; C 59= : 34 ; 55 &3@4 ; 5 4@3= ; 24 ; 55 <9H : 8= &<9B ; 83 X@<9=49D89 2 43D5 ; <34 8 : ; 8 ; 55 7 2 593= = : @54 C3 ; 22@5534 ; 24 & <C ; 43 ; 55 =9H2 7 328= &@C : D <3B32@3= 8 9249B94@ ; 5=, @D : 73 ; =@<3= ? @54 : ; B3 =33 734 3GD35532 8 7 ; 26 H 4 ; 29 ; <4= 9&8 : 36 : ; 4 C332 928< V 4@D34 C6 ; 53H9897 ; 83 <@53<K C@8 D 792H &< 7 8 : 3 : ; 24 &; & <39H2 D 2J@3< < 8 : 36 ?3<3 ?98 : @8 3&&3D8, <3 B3< 8 : 3<3 ? ; = : ; <456 ; =J@ ; <3 7953 & ; 29= : 83<<98 <6 @8=943 ; 4<94 ; 24 8 : 3 8 : 3< 8 ?2= : 354 C6 8 : 3 <32D : ?3<3 ; 53 2= ?<98=D @54 <@2, B3<6 B955 ; H3 ? : 9D : ? ; = @2 DD@ 934 ? ; = ; ==9B356 < ; D89B356 49=V C349328, : 3 <3& <7 = 8 : 3<3& <3 ?3<3 C@8 2 ; 3<, 2 8 : 3< =3<93= &43D<33= ? : 9D : ; 3 ; <34 ; 8 8 : 3 =; 73 8973 ?3<3 92 8 : 37 V =35B3= J@983 ; = X@=89&9 ; C53 ; = 8 : =3 ? : 9D : ?3<3 D 2D3<234 ?98 : ; 47 929=8< ; 89B3 D : ; 2H3= C@8 ?3<3 D3<8 ; 92 ,8 &&324 2923.8328 : = &8 : 3. ; 29= : 2 ; 89 2, : 36 43 ; 58 ?98 : 8 : 3 : @<D : ; 24 98= 7929=83<=, : 3 7 =8 97 <8 ; 28 ? ; = 23 ? : 9D : 43D5 ; <34 0?98 : 3<&3D8 89A@8 : P 8 : ; 8 8 : 3<3 ?3<3 &; < 8 7 ; 26 7 2 ; =83<93= ; 24 2@223<93= 92 ; 92 ; 24 8 : ; 8 98 ? ; = 23D3== ; <6 8 D@8 8 : 37 4 ?2 8 23.8 : 9<4 &8 : 39< 3G9=892H 2@7C3<, : 3 2 ; 73= &8 : =3 ? : 9D : ?3<3 43=89234 8 =@<B9B3 ?3<3 @C59= : 34K 8 8 : 37 8 : 3 927 ; 83= &8 : 3 <37 ; 9292H 92=898@89 2= ?3<3

6 , & * &S L #M ?98 : 3 <; 48 0 ,$# .N ; 24 <83D : 3 0999, LI$P,

L N E L&' M

8 ' C3 8<;2=&3<<34 ' ;= B;D;2D93= ;< =3, :3 =@ <3==34 D 2B328=
?3<3 8 ' C3D 7 3 8:3 < 3<86 &'8:3 =8;83, ;99 &'8:39< <3B32@3=
?;= 8 ' C3 43B 834 8 ' <;9=92H 8:3)=;5;<93= &'8:3 =3D@5;< D53<H6 '
= ' 8:, 8 3B3<6 ;9<9=:' <93=8 =: @54 :;B3 ;2 92D 7 3 &'$ L##<3;5='
0;C @8 RX ?' 2>= < 2@2= ?:' 79H:8 D: =3 8 ' 53;B ' 8:3
7 2;=89D 59&3 ?3<3 8 ' C3 H<;2834 ;=7;55 32=9 2 8'8:3 =;73
897 3 8:3 2J@9=989 2 ?;= ;C 59=:34 T;= 4;2H3< @= 8 ' 8:3 D< ?2
;24 8 ' D9B95 ;@8: <986 ;24 ;55 98= < 3<86 D 2&9=D;834, 2 ;4<94
8:3<3 ?;= =39R34 $ L I " $ <3;5=92 :;<4 D;=: ;C @8 d*$ ###$ 8:3
=7;5523== &'8:3 ;7 @28 7@D:' =@< <9=34 8:3 <32D:' ?:' :;4
B;H@3 943;= D 2D3<292H 8:3 &;C@5 @= ?3;58:' &'8:3 92=898@89 2
:3 256 <3=@58= &'8:3=3 73;=@<3= ?3<3 8:;8 3B3<6 ;29;<4
?;= D 2&9<7 34 92 :9= C3593&'8:;8 ; 53 2 ?;= ;' D 2D3;534 ;8:39=8
;24 ;2 9<<3D 2D95;C53 3237 6 &';55 <359H9 2, U @54 ;268:92H 35=3 C3
3G 3D834 &' 23 ?:' 092 = 983 &' :9= + ';24 3 'P ??;=
;&83< ;55 ;' D:954 &'8:3 3B 5@89 2 :3 7;2?:' :;4 3<=3D@834
8:3 3 92 -;2@;<6 ' M#M ' ? @54 2;8@<;556 3<=3D@83 8:3 92 2>= &'
;92 92 3D3 7 C3<, , =8 ' 8:3 2J@9=989 2 ' 98= &;83 92= 9<34 2 ' <3V
X 9D92H K 98:;4 C332 3&&383 & <7;26 63;<= K 8:3<3 ?;=2 8;' <9= 23<
92 ;26 &'98= 4@2H3 2=, ; 24334 98:;4 32X 634 ;'&33C53 @5;<986
&'5;83 '& <';B92H <3&@=34 8 '5324 98=35&';=;'8 5 8 ' % 4 6, :3
256 <3=@58 &' ; 53 2A= 43D<33 & <98= ;C 5989 2 ?;= 8:;8 98
;DJ@9<34 0H< 83=J@3 ;= 8:3 943;' 7;6 =337 P D 2=943<;C53 D<3498 92
8:3 363= &'8:3 7;X <986 &'8:3 ;29=:' 3 53 ;= 23 &'8:3
@=@< 3<A= B9D89 7 =, 3B3<?;=? <> 7 <3?;=834 8:;2 8:;8?:9D:' '
F 8:3 7 3< <= 328 2 :9= <3& <7= &' 3D3 7 C3<' M#M, :36
;D8@;556 832434 8 ' 7;>3 54 ;C@=3= @5;<?98:' 8:3 7;==3=' 7 3<356
C3D;@=3 :3 :;4 ;883 7 834 8 ' <3 7 B3 8:3 7, =8 ' 8:3) ==9C9598 6
&'D 2D959;892H 8:3 D 7 ;<;89B356 =7;55 C 46 &' 9C3<;5=' :3 ?;=
3J@;556 92 3<< <K 8:36 ;H<334 ?98:' 8:3 B93?= &'- B355;2 =$ <3V
& <7= ?3<3 23D3==;<6 ' C@8 8:36 7@=8 D 7 3 &< 7 ' ?98:92 ' ;24 2 8
C3 97 =34 C6 & <D3 &< 7 ' ?98: @8, :36 ?3<3 ;29;<4= &9<=8
;24 <3& <7 3<= ;&83<?;<4=, :3 256 <3D<@98= ?: 7 2; ;<83 =@DV
D33434 92 32< 5592H & <' :9= C< 8:3<A= D @<8 ?3<3 8:3 @<356 =35&9=:'
C@<3;@D<;8= ?: ' ? @54 ;DD3 8 ;26 H B3<27328 ?:' ? @54 =3<B3
% 4 6 ' 3<492;24 - =3 :';' <34 <3 @C59D ' <'8:3 @58;2 &' @<>36

' <438;95= =33 8:3 43D<33 '92 , &' * &$ L $M, :3 5;=8.2;734
D5;@=3 D@<9 @=56 <3=37C53= ;' < B9=9 2 &' 32<6 / ' &' 2H5;24 ';8 8:3
9== 5@89 2 &' NIN,
\' * &, , &$ * &$ L NNI ';24 3 <;48 # $ f D, ', $# ,

?989G 3J@;5 3J@;297986 = 5 2H 9 8:36D @54 >33 8:39< 5;D3= <
H;92 C3883< 23=,

:3 7 3< <:;4 ;D@<9 @= C3593& 92 8:3 ?3< & ;8:= ;24
:<;=3= B3< 8:3< 732 8: @H:: 3?;= 3289<356 &<33 :97 =35& &< 7
;26 X 33C5323== & 8:3 >924, 3 8 > D 2=943<;C53 ;92= 8 H38
@ ;;=37C5;2D3 & 2;89 2;5 ;DD3 8;2D3 & :9= C< 8:3<= ;@8: <986
2 ?8:;8 :9= =3D 24 <39H2 ?;= ;C @8 8 C3H92, - =3 :: ;4 ; .
3;<34 ;8 :;7;9892 2 3D37C3< $ K C@8 :3?;= 2 8 ;55 ?34W8
3.3283< ;4<94 & <7;26 4;6=, :3 7 3< 9 8 54 :97 8 =8;6
@8=943 ;8 8:3 < 6;5 ;5;D3 & 8:3 ;<4 8955 8:92H= ?3<3 <3;46
& <:9= <3D3 89 2, :9= ?;= 2 8 ;8 ;55 8 8:3 7924 &8:3 092H
?: 8 > :9= =989 2 =3<9 @=56 ;24 ?;= 433 56 ? @2434 ;8 C392H
X <43<34 ;C @8 92 =@D:; 2 ;<C98<;<6 &;=:9 2, 3 =328 92 ;& <7;5
, < 83=8 ;H;92=8 8:3 @C59D;89 2 & 8:3 43D<33= & 3D37C3< LS :9=
?2 2;73 :3 D 7 5;9234 2 8 8:;8 & :9= C< 8:3< @H:8 8 :;B3
; 3;<34 ;8 8:3 C 88 7 & ;55 8:3=3 < X3D8= & <3& <7, 3\ :;4
23B3< D B3834 ;26 ,D< ?2 ;24 53;=8 & ;55 8:;8 & ;92K C@8
:;B92H 2D3 ;DD3 834 8:3 =989 2 :3 D @54 2 8 D 2=328 8 C3 <353V
H;834 928 ;; D 73< ?:953 ; 8:3 ;D8= & = B3<39H286 ?3<3 C392H
3G3<D9=34 C6 :9= C< 8:3<, 3?;= <3;46 8 <3=9H2 :9= D< ?2 928
8:3::;24= &< 7 ?:9D: :3 :;4 <3D39B34 98K C@8 9& :3?;= 2 8 ;55 ?34
8 ;C49D;83 :3 7@=8 C3 ; ?,34 8 <39H2 92 8:3 8<;3 =32=3 & 8:3
? <4, 8 7;43 :97 C5@=: ?98 :=:;73 C3& <3 :9= =@CX3D8= ?:32
:3=;?8:37 92B9834 8 C36 5;?=. ?:9D: :3 :;4 23B3< =332 7@D:
53== =;2D89 234, ; 53 2 <3&@=34 8 ;DD3 8 8:9= ;C49D;89 2K :3
5 >34 ;8 7;883<= &< 7 ;2 3289<356 49&&3<328 928 &B93?, 3
?;= 7;=83< & ;92 ;= :3 D 2=943<34 2 8 73<356 C6 8:3 D3==9 2A
7;43 ;8 ;6 223 C@8 C6 8:3 23?89853 &D 2J@3=8, 3 92832434
8 <3=8 <3 - =3 :8 8:3 8:< 23 C@8 8955 :3 :;4 4 23 = :3=;?2
<3;= 2 ?:6 :3 =: @54 2 8 3G3<D9=3 ;55 8:3 <9H:8= & = B3<39H286
;8 ;4<94, & 92 ;7 7328 & 9J@3 :3 =;94 8:;8 :9= C< 8:3<
79H:8 3GD:;2H3 8:3 D< ?2 & ;92 & < 8:;8 & 8;56 <& <8:3
=989 2 &593@832;28 &8:3 7 3< <92 <;2D3 4@<92H :9= ?2
2@73< @= ;C=32D3= 8:3<3 9= D53;< 3B9432D3 8:;8 8:3=3 ?3<3 37 86
? <4= 9= 49= ;8D:3= =: ?2 8 8:3 53;=8 =9H2 & ;26 < X3D8 & <

; 93<09, $ IP 7;>3= ;D@<9 @= C5@243< 92 =;692H 8:;8 :3 <37;9234 ;8
@<H =,
F :9= 44 :<;=3 9= @=34 C6 - =3 :: 97=35& 92 :9= 53883< & 3D, M =328
&< 7 8:3 ;<4 ;&83< :3 :;4 <3D39B34 8:3 43D<33= 9==@34 2 3D, L C6 :9=
C< 8:3<,

8:3 &@8@<3 &' ;92' 8:3<' 8:;2' 8:3' <3=8 <;89 2' &' - =3 :$;24' ?:953' 8:3' 5;883<' ?;=' ;8' 8:3' ;<4 ' :3' ?;=' D 2892@;556' <3D39B92H' 2 83=' D 2D3<292H' 8:3' <3 <H;29R;89 2' &' 8:3' ;29=:' ;<76' ;24' &92;2D3=' ?:9D:' <3=@ =3' :9=' D 2&9<7;89 2' 2' 8:3' 8:< 23' 78:92' 8:3' 23G8' &3?' .4;6=

8' ? @54' =337' 8:;8' ; 53 2A=' <3;5' CX3D8' 92' >33 92H' :9=' C< 8:3<' &&*' 8:3' =D323' ;24';D892H' ;=' 9&' :3' 92832434' 8 ' ;223G' ;999' 8 ' <;2D3' ;=' ;' B;==;5' < B92D3' ?;=' 73<356' 8 ' &<9H:832' 8:3' 92:;C98;28=' &' ; ;4<94' 928 ' ;' < 3<' &<;73' &' 7924,' &' 8:36' <37;9234 ' <3D;5D9V 8<;28' ;24' <3&@=34' 8 ' D 73' C3& <3' :97' ?98:' 38989 2=' & <' ;<4 2' 8:36' ?3<3' 8 ' C3' 8:<3;83234' ?98:' ;' @<356' <32D:' 7 9598;<6' H B3<2V 7328,' &' 8:36' C ?34' 8:3' >233' 8:36' =: @54' :;B3,'C;D>.092H' - =3 :' ;24' 8:3' 7 D>3<6' &' 59C3<;5' ;24' D 2=898@89 2;5' 7 2;<D:6' ; ?:9D:' :3' <3 <3=32834,' ' 7@D:' ?3' H;8:3<' &< 7' 8:3' 7 3< <A=' D353C<;834' < D5;7;89 2' & 3D37C3<' ';24' :9=' ;55 D@89 2' 8 ' 8:3' << H94 <' ;24' 7 ; =8<;83=' & ;4<94' 8? ' 4;6=' 5;83<,' 8:' &' 8:3=3' ;44<3==3=' ;<3' 92' 8:3' 8<@3' ; 53 23=J@J' B72,' 2' 8:3' &9<=8' ?3' <3;4' 8:;8' 9&' 8:3' 3 53' &' ;92' <3&3<' T' 8:3' 9= 2=' ?:9D:' 8:3' 2H59=:';:;B3' 7929=83<34' 8 ' 8:37' A' 8 ' 8:3' ?: 53= 73' <3H973' 928< .' *4@D34' &< 7' <;2D3' 8:36' =:;55 C3' 8<3;834' ;=' ;' D 2J@3<34' < B92D3' ;24' - =3 :' =:;55 C3' <37 B34' 8 ' ;2 8:3<' 8:< 23,' T' ' ?955 5;D3' 8:3' D< ?2' &' ;92' 2' 76' ?2' C< ?' ;24' ' ?955 7;>3' 98' <3= 3D834' C6' 3B95.4 3<=' & <' % 4' :;=' H9B32' 73' 8:3' =8<32H8:' ;24' 8:3' & <D3' &' ?955 23D3==;<6' 8 ' =@<7 @28' ;55 C=8;D53=,A' 2' 8:3' =3D 24' ?:9D:' 9=' ?<98832' 92' ;' 7 4' &' 53==' <9H @<' 8:3' 92:;C98;28=' &' ;4<94' ;<3' 8 54' 8:;8' 2 8:92H' D @54' C3' 3;=93<8:;2' 8 ' D@8,'@ ' ;92' 928 ' < B92D3='3;D:'H B3<234' C6' ;' =3 ;<;83' B9D3< 6,' @8' 9&' 8:3' D53<H6' 2 C53=' 73<D:;28=' ;24' 7;H9=8<;83=' &' 8:3' D; 98;5' ?955 =?3;<' ;' = 5372' ;8:'@ 2' 8:3' 53==34' ;D<;7328' 8 ' C3' 8<@3' ;24' 5 6;5' & <' 8:3' &898@<3' 8 ' 092H' - =3 :' :3' =:;55 C3' <3=8 <34' 8 ' 8:37' ;24' 8:3' 7 3< <' ?955 7;>3' B3<' 8 ' :97' ;55 :9=' <9H:8=' &' D 2J@3=8,' 3

' :3<3' 9=' ;' D 7 5383' ' ' &' 53883<=' ;24' 49= ;8D:3=' &< 7' 3D,' L' 8 ' 3D,' $$' 92' ?:9D:' 8:3' <383289 2' &' - =3 :';=' >92H' 9=' <3=@ =34' $ 0 P' L NI ' W 3D,' N]' ;4B9=3=' :97' 8 ' <;9=3' ;' ;29=:' ;<76' 0$P' L NI ' W 3D,']' ;4B9=3=' 8:3* ;29;<4=' 8 ' T' 7;>3' 8:39<' 092H' D3<8;92' &' 8:39<' 5 B3' ;24' D 2&9432D3A' $ 0 IP' L NL I' W 3D,' "]' 8:3' ;55 D@89 2' 8 ' 8:3' <<3H94 <' C94=' 8:3' ;4<9532 =' =?3;<' &9435986' 2' 8:3' ;D<;7328' 8 ' 8:39<' 092H' $ *0 P' L NNM' W 3D,' I]' = 3;>=' &' 8:3' >298892H' @ .' ;H;92' &' 8:3' C 24=' ?:9D:' ;88;D:' - =3 :A=' =@CX3D8=' 8 ' 8:39<' = B3<39H2$' 0NP' L N" I' W 3D,' M]' H9B3=' 8:3' 092H' ;4B9D3' ;=' 8 ' 8:3' <3 <H;29R;89 2' &' :9=' &92;2D3=,' 23' &' 8:37' D @54' :;B3' C332' ?<98832' 9&' 8:3<3' :;4' C332' ;26')<3;5' 9283289 2' &' @=892H' - =3 :' &< 7' 8:3' 8:< 23,

M#MJ % L "

D;22 8 =8 ,8 592H3 B3 8:3 8:3 438;95 &8:3=3 ;44<3==3=K
23 &8:3 7 =8 ;=8 @2492H =8;837328 92 8:37 9 8:;8 8:3 J@;<<35
C389B332 092H :;<53 ;24 092H 3<492;24 :;4 C332 :;8D:34 C6
8:3 2H59=:7929=8<6 ;24 8:;8 8:3 @>3 &2&;28;4 ;D892H
;8:39< 8 5 ?;5 8892H 8 7;>3 ;92 2H5;24A B;==;5 T;2
92=32=;83 8 X3D8 ?:9D: ? @54 :;B3 7;43 C5 4 27 92 8 <<328 A
@8 8:9 7;883<34 598853 ;? 98:92 ;&3?? 33>3B3<6 2H59=:
=5493< ? @54 :;B3 C332 D;=8T @8 &8:3 3292=@5; ;24 9=C 2
2 53==8:;2 ;<;H ==; /;532D9; ;24 3B9553 ? @54 C3 &5692H 8:3
<32D:&5;H

2 ;DD <4;2D3 ?98: 8:3 7 3< <A D 7 7;24 8:3 2 8;C53 &
;4<94 D9B95 ;24 3DD53=9;=89D;5 ?3<3 D 7 35534 8 H 8:<@H: 8:3
D3<37 26 &=?3;<92H ;553H9;2D3 8 092H - =3 : 2 8:3 56
;D<;7328 ?:9D: ?;= 3G =34 &<=3B3<;5 4;6= 9X9 3B3<6 D:@<D:
,&<8:9 @< =3, ;<32856 ;B3<6 5;<H3 2@7C3 &3<= 2=
?3<3 924@D34 C6 83<< <<43= ;9< 8 H9B3 92 8:39 &<7;5 =@CV
79==9 2 8 8:3928<@=9B3 092H, :<33 ;H3= &8:3 1 N
4&<3D37C3 ;<3 &95534 ?98: 8:3 2;73= &8:3 43 @893= &8:3
832 J@;<83<= ;24 =9G86.& @<8 &8:3 D986 ?: X 9234 92 8:3
&<734 38989 2 &<8:3 <3=8 <;89 2 8 8:37 &T8:;8 = B3<39H2
?: @2983= = 7@D: >92423== &: 3;<8 ?98: =@D: ;2 9283<3=8 92 8:3
?35&;<3 &: 9= =@CX3D8= ;24 ?: =3 <3=32D3 ?955 C3 8:39< X 6,A
;89=&934 ?98: 8:9=43D5;<;89 2 ;24 <3832492H 8 8;>3 98 ;= 8:3
3G <3==9 2 &8:3 ?9=:3= &3B3<6 ;29;<4 ?: ? ;= 2 8 8:3 ;94
* ;H328 & 2H5;24 < 8:3 =5;B3 &8:3 2J@9=989 2 8:3 7 3< <
?;= H<;D9 @=56 53;=34 8 <3=8 <3 - =3 :8 ;55 :9= <9H:8=, %<3;8
<3 ;<;89 2= ?3<3 7;43& <:9= =5372328<6 ?:9D: ?;= D353C<;834
?98: D 2=943<;C53 =8;8392 8:3 7 28: &-;2@;<6,
@8 :9= 5;2= &<8:3 <3 <H;29R;89 2 & ;92 256 &<734 ; <8
&8:3 7 3< <A= ? <> ;8 :;7;<892, 3 ?;= ;5= C@=934 92 8:3
<3D 2D328<;89 2 &:9= ;<7 93= &<8:3 @< =3 & B3<<@2292H 8: =3
;<8= &8:3 3292=@5; ?:9D: =8955 <37 ;9234 @2D 2J@3<34, 2 8:3
B3<6 7 << ? &8:3&;55 & ;4<94 :3 :;4 @=:34 @8 438;D:7328=

H &* & $ L NL ; #M,
* ;93<09, $ IP <928= 2; ;<83A= ;55 D;89 2 92 &@55 ?98: 8:3 ;=8 29=:92H
D 9@92328 8:;8 98 T ?;= ;2 3G =989 2 &8:3 <92D9 53=@ 2 ?:9D: ;92 ?;= 8
&H B3<234 ;24 98 & <D3= <3&53D89 2 @ 2 8:3 ;==9 2;83 B9 532D3 ?98: ?:9D:
732 <3=9=8 =989B3 H 4 8 =33> 4;2H3< 79=3<6 ;24 43;8: <;8:3< 8:;2
<3=9H2 8:39< <3X@49D3=,A =8:3 43=9<3 & <2;89 2;5 9243 32432D3 ;<3X@V
49D3 b 24 =:@54 98 C3 3;=956 <3=9H234 & <T =989B3 H 4 A 3,H, ;4 7929=8<;89B3
<3& <7 b

92' ;55' 49<3D89 2=' 8 ' D B3<' ;55' 8:3' ; < ;D:3=' 8 ' 8:3' D; 98;5' ;24' 8 ' :@28' 4 B2' ;26' <3 7 2;28=' &' 8:3' ;29=:' ;<7 93=' ? :9D:' 7 9H:8' =8955' C3' ? 98:92' <3;D:' 3' ?;=j ;<89D@5;<56' : 3&@5' 8:;8' :3' 7 9H:8' D;8D: 8:3' ;<7 6' &' 8:3' 328<3' ? :9D:' ? 98:' 36' ;24' ;@<9D3' ;8:93@' ;8' 98=' :335=' ? ;=' D 7 92H' 92' &< 7 ' 8:3' 49<3D89 2' &' 9H@32R;' ;24' ;5;8;6@4,' ' 9283<D3 8' 98' 8:3' &@=9593<=' &' 8:3' %@;<4' 7 ;<D:34' & <' 5D;5;' 23' &' /9D8 <A=' 49B9=9 2=' & <' %@;4;5;X;<;' ;24' ;2 8:3<' & <' <;2X@3R' ? :953' 3==93<3=' B98:' 8:3' %@;<4' D;B;5<6' ;24' 23' &' ;8 9@*. ;@C @<HA=' C<9H;43=' &' 49A;H 2=' =?3 8' ;55' 8:3' D @28<6' ;< @24' 8:3' ;X@2;' ;24' 8:3' ;H@=,' @8' ;=' ?3' :;B3' ;5<3;46' =332' ;' 32;A=' &; 7 9=:92H' 732' @589 7 ;8356' H 8' ;?;6' 92' 8:3' 49<3D89 2' &' @32D;,' :32' 98' ?;=' D3<8;92' 8:;8' 8:36' :;4' 3=D; 34' &< 7 ' 8:3' 238' ; 53 2' <3;<<;2H34' :9=' & <D3=' 2' 8:3' 3;=83<2' =943' &' ;4<94,' 3==93<3=' ?98:' ;8 @<.' ;@C @<HA=' ? : 53' 49B9=9 2' &' 4<;H 2=' DD@ 934' D;28 2 7 328=' &;D92H' ;8' 2D3' 8 ?;<4=' @32D;' ;24' 8 ?;<4=' ;' ;2D:;K' 8:3,' ;<=:;5A=' :3;4' J@;<83<=' 2' 3D3 7 C3<' ?3<3' ;8' ;<;2D 2,' &' /9D8 <A=' 92&;28<6' 23' 49B9=9 2' 0 @5&92P' 7 ;<D:34.' 2' 534 ' ? :9D:' 3234' 98=' H;83=' ?98: @8' <3=9=8;2D3' ;2 8:3<' 8:;8' &' /955;883' <3V 7 ;9234' ;8' <;2X@3R' ?98:' ;2' ;4B;2D34' H@;<4' ;8' D;2;' ;' &3?' 7 953=' &@<8:3<' = @8:,' :3' 8:9<4' 49B9=9 2' &' 8:3' =8' < =' 8:;8' &' J 9==3' <37 ;9234' ;8' ;4<94,' 36A=' 8< =' ?3<3' ;5=' ;8' :;24' 92' 8:9=' J@;<83<K' ? :32' ;' 32;' :;4' &92;556' 3=D; 34' &< 7 ' :9 7 ' :3' ?;=' 8 54' 8 ' 53;B3' 8:3' 49B9=9 2' &' 3== 553=' ;8' %@;4;5;X;<;.' ;24' 9H@32R;' :3=3' & <D3=' ?3<3' 43=89234' 8 ' >33 ' 32' 8:3' D 7 7 @29D;89 2=' C38?332' ;4<94' ;24' <;H 2 ' ? :3<3' 8:3' =93H3' &' ;<;H ==;' ?;=' X@=8' ;C @8' 8 ' C3H92,' 98:' :9=' 8:3<' 8? ' 49B9=9 2=' 8: =3' &' ;<D:;24' ;24' ;@<9D3' ;8:93@` ' 36' ?;=' 49<3D834' 8 ' 7 ;<D:' 928 ' ;4<94K' :3' ?;=' 8 ' & <7 ' ;<8' &' 8:3' 7 ;==' &' 8< =' ?:9D:' 8:3' 7 3< <' ?;=' D 553D892H' 92' ;24' ;C @8' 8:3' D; 98;5.' & <' 23?' &&32=9B3' 3<;89 2=,' <' 8:9=' =;73' @< =3' 8:3' L8:' < =' 8:;8' &' 3&3CB<3' ?;=' C< @H:8' @ ' &< 7 ' 54' ;=8953K' 8:3' ;<=:;5' ?98:' :9=' 8? ' 53;492H' 49B9=9 2=' 8: =3' &' 3C;=89;29' ;24' 3B;5' ;<<9B34' 92' ;4<94' 2' 3D3 7 C3<' "K' :9=' 8:9<4' 49B9=9 2' 8:;8' &' /;532D3' D 7 =34' &' 53=' ?;=' = 73' ?;6' 8 ' 8:3' <3;<' :;B92H' 256' <3;D:34' @<H =' 2' 3D3 7 C3<' ,' @8

)' , !' + ! ' LN$

' ' D;22 8' = 3;>' & <' D3<8;92' ;=' 8 ' 8:3' 7 7328' ;8' ?:9D:' 9H3 2A=' C<9H;43' &' 4<;H 2=' ?:9D:' :;4' C332' 5328' 8 ' ;223=' & <' 8:3' @435;' D;7 ;9H2' <3X 9234' ;8 @<. ;@: @<H,' @8' < C;C56' 98' D;73' ;D< ==' ?98:' 36' ;=' 98' ?;=' ?98:' 98=' 49B9=9 2' C6' 3D,' $M' 0- @<4;2A=' # $,' IMP,

* :3' 5;883<:;4' 8;>32' B3<' ;H<;2H3A=' 49B9=9 2' ;&83<' @435;,

M#M] % LM

C6 8:3 8:9<83328: 8:3 ?: 53 D < = ?;= D 2D328<;834 ;8 ;4<94,
 &3? 4;6= 5;83< 8:3 49B9=9 2= & 3C;=89;2 ;24 /;532D3 ?3<3
@=:34 2 8 ;5;B3<; ;= 9& 8 & <7 8:3 ;4B;2D34 H@;<4 &;2
3G 34989 2 ;H;92=8 =8<392;4@<; ?:953 8:;8 & 3B;5 <37;9234 92
 ;4<94 : ;5;B3<;:;4 C332 DD@ 934 C3& <3 8:3 @>3 & ;28R9H=
;<<9B;5 C6 8:3 D;B;5<6 & ;=;553 ;24 95:;@4 ?): 4< B3 @8 &
98 ?98: @8 49&&9D@586 8:3 ,437 <;59R34 8< = 8:;8 :;4 7@<43<34
;2 -@;2, :9= 7 C 2 ? @243< 8:3 <43<= & %;55@RR 8:3
X ; 8;92.%323<;5 & =8<392;4@<; &534 C3:924 8:3 ;H@= ;24 C;<<9V
D;434 8:3 C<94H3= & <R C9= ;24 57;<;R 8 D B3< 98= &< 28,
 8)B 955 8:@= C3 =332 8:;8 8:3 8< = & /9D8 < 3&3CB<3 ;24
3== 553= ?98: 8:3 D;B;:6 & ;8 @<. ;@C @<H ;=;553 ;24
95:;@4 8:< ?2 @8 92 &< 28 & 8:37 & <734 ; =379D9<D53 < V
83D892H ;4<94 8 T8:3 3;=8 8:3 = @8: ;24 8:3 = @8:.?3=8, 2 8:3
2 <8:.?3=8 92 8:3 49<3D89 2 & 8:3 %@;4;<<;7; ;24 8:3 < ;4=
8 ?);<4= 8:3 >92H4 7 & 3 2 8:3 D9<D53 ?;= D 7 53834 C6 ;
C<9H;43 &* ;: @==;63= 49B9=9 2 & 4<;H 2= ?: 5;6 92 ;24
;C @8 B95; 0 2 8:3 D328<3 ;B;95;C53 & <;C5 ?92 ;26 49<3D89 2
?3<3 8:3 ?: 53 &8:3 7 3<9;5 %@;<4 0: <=3 ;24 & 8P 36= D < =
; 9==3= 49B9=9 2 &/9D8 <= D < = ;24 3B;5= 49B9=9 2 & 3&3CB<3= D < = C3=943= 092H - =3 := %@;<4= ;8 8;5 &;853;=8 L# ### 732,
8 256 233434 8:3 ? <4 8 C3 H9B32 ;24 8:3=3 8< =0;&83<434@D8V
92H ;H;2A9= 2 & < ;4<94P D @54 7;<D:& <?;<4 398:3< 8 X 92
3&3CB<3 & <;C5 ?;8 9=C 2 < /9D8 <& <;C5 ?;8 3B9553,
 3;2?:953 8:3<3 ?3<3 =89 <392& <D37328= D 792H @ &< 7 8:3
<3;<K 8:3 C35;834 D < = & <893< 8:3 5;=8 H<3;892=8;57328 &8:3
;<76 & %3<7;26 :;4 ;8 5;=8 <3;D:34 /988 <9; ;DD 7 ;2934 C6
8:3 49B9=9 2 &49A;H 2= & <H3=, :3 ;<=:;5 ?;= 49<3D834 8
8;>3 :9= D < = 8 ;<;H ==;92 <43< 8 ;==9=8 ;223= ;24 2D36
92 8:3 =93H3 &8:;8 D986 C@8 8:3 4<;H 2= ?3<3 =328 8 @<H = 2
8:3 < ;4 8 ;4<94, <3 B3< -@2 8A= D < = ;&83<:;B92H C332
<3&98834 ;24 <3 <H;29R34 =92D3 98= <38@<2 &< 7 <8@H;5 ?;= ;5=
;B;95;C53, 8= 53;492H 49B9=9 2 8:;8 & 35;C <43 :;4 D< ==34 8:3
94;== ; 2 3D37C3< L ;24 :;4 2 ?<3;D:34 <H =, :3 8:3<
8? 49B9=9 2= 8: =3 & 9= 2 ;24 3@43538 0?: :;4 <3 5;D34
<;B 8;8 8:3 :3;4 &8:3 I<4 9B9=9 2P ?3<3 2 8 &;< C3:924, :36

  :9= 49B9=9 2 ?;= 92D 7 5383 :;B92H 53&8 C3:924 92 9=D;6 8? @8D:
;24 23 %3<7;2 C;88;59 2=,
* :3 8:3< C<9H;43 ?;= ;=8<;6 23;< 534 D 28<;<6 8 8:3 7 3< <A= 9283289 2K , & * & $ LN"L <43<= 98 8 7;<D: 2 ;5;B3<;, '
, ' '9

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98: <3D 2D39B34 943;= &8:9== <8 92 :9= :3;4 8:3 7 3< <
)" B;= <3 ;<92H8 @=: 2 :9= 7 ;92 C 46 92 =@ <8 &8:3;4B;2D34
8< N = @243< 3&3CB<3 ;24 ;=;553 2 8:3 < ;4 8 =89%37;94@9%;
;24 <8@H;5, / 9D8 < 73;2?:953 ?;= 8 H@;<4 ;H;92=8 8:3 @259>356
D:;2D3 &;26 7 B3 C392H 7;43 2 ;4<94 C6 8:3 =:;883<34 T <76
&8:3 328<3% &< 7 @32D; < C6 23? 24;5@=9;2 53B93=, :%3;46
;=;553%= : <=37 32 ?3<3 @=:92H 2 8 <@G955 ;24 5;=32D9;
;57 =8 8 8:3 H;83= & ;4;X R ;24,8 8:3 <8@H@3=3 &<% 2893<
'X B:32 @23G 3D834 27 = ;<<9B34 ;24 8:3 ?: 53 5;2 &D;7 ;9H2
B;= @ =38,

2=83;4 &<389<92H 2 9=C 2 9< - :2 <3 :;4 @=:34 &<.
'?;<4 928 8:3 5;92= & 54 ;=8953 ;24 B;= ;4B;2D92H C6 &<D34
29;<D:3= 8 ;88;D>8:3 9= 5;834 D 9% = & ;<=:;5 @58, 2; ;<83
B;= >33256 ;59B3 2 ? ;= ;5?;6= 8 8:3 4;2H3< & ;43&3;8 92 8:3
B;5536 &8:3 97 , <3 B3< 8:3 =9H:8 &; <989=: ;9*76 92
8:3 &9354 ;24 B98:92 =8<9>92H 49=8;2D3 ;D834 2 :97 ;= 8:3 <34 <;H
;D8= @ 2 8:3 C@55, 8 95 < 8< @C53 B @54 C3 8 H<3;8 8:;8
32434 92 98= 43=8<@D89 2 ;24 5 >92H ;8 :9= 7; = 8:3 7 3< <
8: @H:8 8:;8 :3 =;?8:3 B;6 8 ;229:95;83 <3%=
: =8, :< B92H @ B98: @8 ;7 7 328%= 435;6 8:3 B: 53 5;2 & <
8: 92B;=9 2 & <8@H;5 :3 7 <D:34 & < 8:3 ;==3= &8:3 %@;4;<.
<;7 ; B98:3B3<6 7 ;2 8:;8 ?;= 49= =;C53 ;8 ;4<94, 9= = 9<98=
?3<3 :9H: ;24 8:3,3B328 =33 734 8 :97 D39%8;92, 3 =328 C;D>8
:9= C< 8:3< - =3 :8:3 D 7 7 ;24 8 @8 92 8:3 ;4<94 23?= ; 3<=
;24 D9<D@5;83 3B3<6?:3<3 8:3 23?= 8:;8 MN ### 2H59=:8<. = ?3<3
=@<< @2434 ;24 4 7 34 8 43=8 D89 2 3;2?:953 ?98: # ###
732 ;8 :9= C;D> :3 ?;= 7 ;<D:92H :;<4 & < <3B;5 ;24 32;B3283,

 >2 ?2 C3883< ?;6 &49= 5;692H 8:3 ; 53 23=J@3 738: 4 8:;2 8:3
<92892H =983 3;D: 8:3< & :9= 49= ;8D:3= L N$# ;24 L N$N C 8:
;44<3==34 8 - =3 : 2; ;<83, < 8:3 C323&98 &8:3 23?= ; 3<= 8:3
2H59=:;<76 ?;= 8 C3 B3<=8;834 C6 # ### < $ ### 732^

L N$#,

;983= 7388<3 4;2= 53= X @<2;@G 38 3@< & <D3 3=8 43 $# ### ;
<3 ;24<3 ;<8 @8 J@3 IN ### 2H5;9= $ ### 92&;283<93 38 43 L ### ;N ###
=328 D3 73=, -3 =@9= =@< 53@<= 43<. 43 D;);53<93 ;B3D @23 J@;<;28;923 43
<93<3= 8;249= J@3 53 7 ;<3D:;5 @58 93D3= 43 D;2 2,
3=8 43B;28 3@G,

L N$N,

M##M] LM

5 2H\C3& <3 8:3 5;=8 =7 ;55 438;D:7328= &8:3 <32D0 :;4 49=V
; 3;<34, @8?:32 2 D8 C3< &95<69: 53A= =@DD3== < 5 >34 ,
;< @24 :97 :3 & @24 8:;8 8:3?: 53 ;<76 ?;=) =8955 D 2D328<;834
92 8:3 239H:C @<: 4 &9=C 2 H;B3 3A= 8? C<9H;43= ;24
8:3=3 :;4 C332 =328 & <?;<4 8 8:3 &< 2893< 2 8 = 7@D:& <8:3
9@< =3 &3283<92H ;92 ;dh& <8:;8 &C<92H92H 7 <;5 & <D3 8
C339< 2 %323<;5 %;55@RR ;24 D 7 35592H :97 8 ;C;24 2 :9=
<949D@5 @= =93H3 &5B;=, ? 8:92H= :;4 C332 3= 3D9;556 23H53D834
C6 ;:A67 53 8:3 3G 5 <;89 2 &8:3 <;4= 8:;8 53;4 &< 7 <V
8@H;5 928 ;92 ;24 8:3 <3==92H 2 &8:3 &<7;89 2 &;< 3<
49B9=9 2;5 ;24) <3H97328;5 8<;2= <8 & < 8:3 939<76, 8 9= =8<;2H3
8 &924 8:;8 :3 :;4 <3737C3<34 8:3 3G9=832D3 &C 8: &8:3=3
2334=K :9= 49= ;8D:3= = 3;> &:9= 9283289 2 8 =324 &&9D3<= C 8:
8 ?;<4= ;4;X R ;24 928 39< 6 ;24 :3 ;==3<8= 8:;8 T8:3 ;<76
9= 92 :9H:, <43< ;24 &98 8 7 B3 ?:32 <3J@9<34 38 :9=
=@DD3== < :;4 8 =8;83 8:;8 ;= ;7 ;883< &&;D8 2 C 46 &92& <7;V
89 2 ;C @8 8:3 < @83= ;24 <3= @<D3= & <8@H;5 ;24 ;92 :;4
C332 D 553D834 ;24 8:;8 8:3 =D:373 & < 7 B92H ;24 .&33492H 8:3
;<76 :;4 2 8 C332 4<;?2 @ , T :32 =:;55 ;== 8:3 &< 2893<
& <8@H;5 A6< 83 <3 8 ;=853<3;H: T98 9= 97 ==9C53 & < 73
;8:9= 92=8;28 8 =;6K 98 43 324= 2 ;>2 ?534H3 & 8:3 D @28<6
?:9D: ;7 =8955 ?98: @8 ;24 2 D 7 79==;<9;8 N9<<;2H37328= 638
@27;43*,A 3 7;6 H<;28 8:;8 ;5<67 53 :;4 C332 =73?:;8
:;249D; 34 C6 8:3 &;D8 8:;8 :9= ;<76 :;4 C332 5;2434 92 8:3
54 :; :;R;<4 <989=:&;=:9 2 ?98: @8 ;26 < 3< 7 9598;<6 8<;92,
3 7;6 ;5= D 2D343 8:;8 2 23 D @54 :;B3 & <3=332 8:;8 8:3
<8@H@3=3 ;24 ;29=:H B3<27328= ? @54 C3 @2;C53 8 =@ 56
;26 @=3&@5 92& <7;89 2 D 2D3<292H 8:3 7;92 <;4= ;24 8:3 <3= @<D3=
& 8:39< ?2 D @28<93=, @8 8:3?: 53 7 28: & 3 837C3< :;4,
C332 ;8:3 49= =;5 & 8:35;83 D 7 7;243<.92.D:93& ;24 :3 ?98:
:9= J@;<83<7;=83<.H323<;5 @<<;6 7@=8 8;>3 8:3 C5;73 & :;B92H
&;9534 8 ;DD 7 59=:92 98 ;55 8:;8 79H:8 :;B3 C332 4 23, 98:92
;& <829H:8 ;&83< 8:3 2B3289 2 & 928<;: ;4 C332 =9H234 <989=:
&&9D3<= @H:8 8 :;B3 3G 5 <34 3B3<6 <;4 8 8:3 &< 2893<;24 8
:;B3 <3 <834 2 8:39< &;D959893=, 38 2 D8 C3< N <3 D @54
2 8 &924 ;26 23 ?: D @54 8355 :97 ?:38:3< 8:3 <;4= 9=C 2
;C@H;5 57394; ;24 9=C 2 C<;283= ;=8355 <;2D ?3<3
< ?3<3 2 8 <;D89;C53 & <;<89553<6^ 24 8:9= ?;= 92 = 983 & 8:3

* ;5<67 53'8 ;=853<3;H: 3 8,$,
* * <3'8 ;=853<3;H:'&< 7) 9=C 2 D8,'" M#M,

&;D8 8:;8 ; <989=: 438;D:7328 :;4 ;D8@;556 7 ;<D:34 &< 7 9=C 2 8 57394; 92 <43< 8 <3D39B3 8:3 =@<<3243< &8:3 H;<<9= 2 &8:;8 & <8<3==, :3 &;D8 ? @54 =337 8 C3 8:;8 ;5<67 53 :;4 5;D34 :9 D 2&9432D3 92 8:3 2;89B3 H B3<27328 &8:3 3292=@5; 3 B;9256 97;H9234 8:;8 8:3 <8@H@3=3 32H9233<= D @54 =@ 56 :97 9B98:;DD@<;83 438;95= D 2D3<292H 8:3 < ;4= ;24 <3= @<D3= &8 39<; ;24 8:3 5378 3X , 3 =328 ; B3<6 D; ;C53 &&9D3< <4 9559;7 32892D> 8 ;4<94 ;24 3283<34 928 D 7 7@29D;89 2 ?98:;8:3 ;29=: H B3<27328, < 7 8:37 :3 : 34 8:;8 :3 79H:8 H38 = 73 ;DD 978 &8:3 5;2 &D;7 ;9H2,92 B:9D: :9= ;<76 ?;=8 X 92 ;59=8 &8:3 < @83= ?:9D:98 ? @54,C3 D 2B329328 &<,:97 8 @=3 ;24 438;95= ;=8 8:3 ?;6 92 ?:9D: :3 D @54 D 553D8 ;24 D;26 < B9=9 2=, = ; 7;883< &&;D8 :3 D @54 256 C8;92 ; J@;28986 &B;H@3 ;24 H323<;556 @=353== =@HH3=89 2= = 73 &?:9D: ;<H@34 ;2 ;=8 29=:92H 9H2 <;2D3 &7 9598;<6 ;&&;9<= 92 8: =3 ?: 7;43 8:37, &8:3<3 :;4 C332 ; ;29=:D 7 7;243<.92.D:93& ;5<67 53 79H:8 :;B3 3G8<;D834 &< 7 :97 :9= B93?= ;C @8 8:3 D;7 ;9H2 8:;8 7@=8 =: <856 C3H92, @8 8:3 -@28; :;4 =83;4&;=856 <3&<9=34 8 @2983 8:3 D:;<H3 &8:39< 7;26 ;<793= 92 8:3 :;24= & ; =92H53 H323<;5 8:36 8 54 <4 9559;7 8:;8 :3 79H:8 7;>3 92J@9<93= &< 7 ;=8;2 =C@8 8:3 24;5@=9;2 H323<;5 D @54 256 = 3;>& <:97=35&, 8 ?;=2 8 :3 C@8 ; D @2D95 &?;<8:;8 ? @54 =38853 8:3 5;2 & 3<;89 2= :3 D @54 256 H9B3 32892D> 8:3 D 2D5@=9 2= 8:;8 :;4 C332 ;<<9B34 ;8 ;&83< 8:3 ;C <89B3 733892H &H323<;5= 8:;8 :;4 8;>32 5;D3 2 3 837C3< , 2,;2=?3< 8 ; =8<92H &J@3=89 2= ;479 29=83<34 8 :97 C6 ;5<67 53= 379==;<6 ;= 8 8:3 < @83= 8:;8 8:3 <989=: ;<76 :;4 C3883< & 55 ? ;24 8:3 738: 4= &=@ 56 8:;8 98 :;4 C3883< ;4 8 :3 D @54 256 <3 56 8:;8 :3 ?;= ;8 <3=328 ?98: @8 H 4 7; = ;24 D @54 2 8 H9B3 8:3 23D3==;<6 92& <7;89 2 92 438;95, 3 D @54 256 <3&3< 32892D> 8 8:3 23?56 & <734 7 79==;<9;8 ;<4 >< J ? ?:9D: @H:8 8 C3 ;C53 8 43=9H2;83 8:3 C3=8 < @83= ?98: <3&3<32D3 8 8:3 &33492H &8:3 ;<76 ;24 8:3 3=8;C59=:7328 &7;H;R923= : &D @<=3 8:9= C ;<4 87<234 @8 8 >2 ? 3B32 53== 8:;2 ;=8;2 = :97=35&, 8:92H ?:;83B3< ?;= 4 23 & < 8:3 <989=: ;<76 ?98: 8:3 3GD3 89 2 8:;8 ; D3<8;92 5 235 3R ?;= =328 8 98= :3;4 J@;<83<= 8 ;D8 ;= 8:3 <3 <3=328;89B3 &8:3 < J 8 4 3=2 8 =337 8:;8 :3 ?;= ;C53 8 4 ;268:92H & <8:3 3G 34989 2;<6

* :3 B3<6 9283<3=892H 0;24 = 73897 3= B3<6 =32=9C53P <3 593= & ;=8;89 = 8 32892D> ?955 C3 & @24 92 8:3 5;883<= 53883< 8 ;5<67 53 0 D8, $P, *

& <D3 8 : ; 8 8 : 36 D @54 2 8 : ; B3 4 23 & < 8 : 3 7 =35B3=; 2 8 : 9= ? ; 6 8 : 3 ? : 53 89 7 3 8 : ; 8 ; 5<6 7 53 : ; 4 ; 8 : 9= 49= = ; 5 : ; 4 C332 ? ; =834 92 8 : 3 5 2H D <<3= 2432D3 ?98 : ; 4<94 ; 24 2 8 ; = 5493< : ; 4 ; ==34 8 : 3 &< 2893< ? : 32 <3 8 5 @ 8 : 3 D 7 7 ; 24,

3 ; 2 ? : 953 98 @H : 8 ; 8 53 ; =8 8 : ; B3 C332 ==9C53 8 7 ; >3 <3 ; < ; 89 2= 92 <8@H ; 5 3B32 9& 2 8 : 92H D @54 C3 4 23 92 ; 92, @8 8 : 3 J@3=89 2 &8< ; 2= <8 ; 24 D 7 7 9== ; <9 ; 8 ? ; = ; B3<6 49&&9D@58 23, : 3 <989= : ; < 7 6 : ; 4 =8<@HH534 &9A 7 /8 243H ; 6 8 9=C 2 ?98 : 8 : 3 ; 94 &8 : 3 = 7 ; 55 G.? ; H 2= &8 : 3 D 7 98<6.=943 <3J@9=989 234 ; 24 49= 7 9==34 &< 7 B955 ; H3 8 B955 ; H3, @8 D53 ; <56 ; 5 2H D ; 7 ; 9H2 92 ; 92 D 8954 2 8 C3 7 ; 2 ; H34 2 8 : 3=3 5923=, ' 3<7 ; 2328 < B9=9 2 &4< ; @H : 8 ; 24 ; D> ; 297 ; 5= ? ; = <3J@9<34 ; 24 2 ; 89B3= 7 @=8 C3 : 9<34 8 4<9B3 8 : 3 7 , : 3 &3? <3=<@5 ; < 3259=834 732 &8 : 3 6 ; 5 ; H 2 <; 92 ? : ; 4 <3 ; D : 34 <8@H ; 5 ?3<3 256 32 @H : 8 , 8 ; >3 D ; <3 &8 : 3 7 <3 97 <8 ; 28 7 9598 ; <6 =8 <3=, <3 B3< 8 : 39< ? ; H 2= 8@<234 @8 8 C3 7 @D : 8 : 3 ; B6 & < 8 : 3 < ; 4= &8 : 3* 3292=@5 ; 24 : ; 4 8 C3 H<; 4@ ; 556 <3 5 ; D34 C6 D @28<6 D ; <8Z , : 3 H<3 ; 8 7 ; == &8 : 3 <3H9 7 328 ; 5 C ; HH ; H3 ; 24 8 : 3 & 4 : ; 4 ; 5 B ; 6= 8 C3 8<; 2= <834 2 7 @53= < B3 : 9D53= C @H : 8 < : 9<34 &< 7 8 : 3 3 ; = ; 28<6, : 3 <8@H@3=3 494 2 8 D ; <3 8 D 28<; D8 8 8 ; >3 8 : 39< ; 297 ; 5= B3< 8 : 3 &< 2893< ; 24 98 ? ; = 7 =8 49&&9D@58 8 D 553D8 8<; 2= <8 &; 26 >924 3B32 ?98 : 8 : 3 ; 94 &8 : 3 5 D ; 5 ; @8 : <9893=, \ : 32 2D3 <3A= 4<3 ; 4&@5 <38<3 ; 8 C3H ; 2 : 9= 4<9B3<= ; 24 7 @53833<= 43=3<834 8 : 39< ? ; H 2= ; 24 C3 ; =8= ; 24 &534 : 7 3 <3= 5B34 8 : ; 8 9& 8 : 36 7 @=8 5 =3 8 : 39< < 3<86 8 : 36 ? 944 2 8 5 =3 8 : 39< 59B3= ; 5=

2 5 ; 83< 63 ; <= 3559 2H8 2 H< ; 4@ ; 556 =@DD33434 92 D 553D892H ; 5 ; <H3 ; 24 92B ; 5@ ; C53 ; < 7 6 &; 29= : ; 24 <8@H@3=3 37 5 6 ? : 92 8 : 39< ?2 &; = : 9 2 B3<3 ; = H 4 D ; 7 ; 9H23<= ; = : 9= = 5493<6 ; 24 =3<B34 : 97 ?98 : 3G3 7 5 ; <6 &9435986 3B32 ? : 32 8 : 39< ; 6 ? ; = 7 ; 26 7 28 : = 92 ; <<3 ; <, @8 92 M#M 8 : 9= C 46 &8< ; 9234 D ; 7 .& B39= 494 2 8 3G9=8 ; 24 <3 : ; 4 8 : 3 H<3 ; 83=8 49&&9D@586 92 =D< ; 92H 8 H38 : 3< 8 : 3 8< ; 2= 99$ 8 : ; 8 8 > ; 97 & 2B ; <4 8 ; 5 ; 7 ; 2D ; = 8 D 7 79==; <9 ; 8 ; 9 ; 2H37328= : 3 & @24 8 : ; 8 3B32 8 : @H : 3

= <3 8) ; =853<3 ; H : & < 7 . ; 5 ; 7 ; 2D ; 3D, # M##M,

3 2 (-- 7) 6 .0+ 2%66%-74.%+& 6 . , ( ) &/ , %) ,+& (, ' * 5%44 1+ 6 7) 2%) Z7 (, .+, ' (&.+, 7, .++&& D> 7 + . 6 5 ; D34 %) -0 (, 3+ 6 .0+ 1 (33 (3+ ( ) 2 1+ (&.& 6 .0+ Q\" .0 0+ 6 7) 2 %. (1& 47.+4* % ' / &&%14+ . 9++/ .0+) (.%8+ 2, %8+, & 6, ' (1&-) 2%) 3 +8+) 50+) .0+* 0 (2 . & (-, %6%-+ .0+%, 1+ (&.& . 2 & E/ (3+& ! QF

HJF # " E *5

49B9434:9=;<76928=3B3<f5=7;55D5@72=;2D5@8959R34);=7;26=3;<;83<@83=;==9C56981?;=2839;=6&<8:38<=&59B3,:3D7799==;<9;8)&&9D3<=328 2 8 *D553D87;H;R923=;8 8:3B;<9@=:;5892H.5;D3=?3<3 923G 3<932D34;24=@29&<7569H2<;28&8:3<8@H@3=38 2H@3*8:;893B3:?:3<38:36?3<3323<H389C8:36:;4 8:3H<3;83=849&&9D9486 92D;83<92H&<)8:3;<76,3553=536;=?3:;B3;5<3;46=332:;4C332D 7 5;9292H C9883<56&8:39<923&&9D932D6 4@<92H8:3=:<8/97 93<D;7 ;9H2,<3 7 <3H<;D9@=92:9=:<;=3=?<83 8:;8?3:;B3;7 799==;<9;83G8<3 7 356R3;5@='C@8J@983 23?';24923G 3<932D34 92 8:3 97 9LK;28 4@893=?:9D:98&;55=8 8:39<5 8,8 3<&<7,:9=?;=C@8 23&8:3,7;26 32;5893=?:9D:2H5;24:;4 8 ;6&<:3<5 2H;C=83289 2 &<7D 2892328;5?;<&;<3 2;5;<H3=D;53,8 9=3;=6 8 C5;73 8:3 7929=8<6 8:3 3<7;2328 &&9D9;5=92 24J99<8:3 3G3D@89B3 &&9D9;5=2 8:3=8,@8 92<3;5986 73<3?;28&>2 ?534H3&8:3 2334=&;H<3;8 5;24.?;<;DD @28=&<7=8&8:3 79=8;>3=8:;8?3<3D 7 7 98834,5;B9=:;2H<6D<989D9=7 2 9249B94@;5=;=494 8:3=989 2;3<=92 JH5;24;8 8:3 8973 ;?;=;57=8;=@2X@=8;=98?;=@=353==,:3;<8&?;<'92 8:9=;=92 98=8:3<C<;2D:3=:;4 8 C3533@7 85 98?;=2 8==9C53 8 9D>'98@ 'C6928@989 2,')8:92H D;2C3 7 <3 9283<3=892H 899;2 8 5 >'8:<@H:'8:3 5 2H=3<93=&<43<=;24 49<3D89 2=4<;?2 @ 'C6 8:3 J@;<83<7;=83<.H323<5N=43;<8 7 328 C38?332 5N#"';24 M I'92?:9D:'8:3 H<;4@;5 3B 5@89 2&<43<@8&D:;=C6 4928&<;D89D;5 3G 3<932D3D;2C3 8<;D34,@8 92 D8 C3<'M#M' 8:3<D3==?;=638 92 98=92&;2D6,

8?;=,?98:'8:3 H<3;83=849&&9D@586'8:3<3&<3'8:;8<3 H 8:9=;<76@243<?39H:,3 &974 98';=:3?83,8';=853<3;H:'?98:@8 3J@9 7328&';26>924 398:3<&<8:3D;<<9;H3&8:3 59H:8C;HH;H3&<3H97328='<89553<6=8<3='D 7 79==;<9;8=8<3='<;26 8:3<; 324;H3&;2';<76';24?98:@8';7;H;R923&<734 2';26&8:3<@83=C6?:9D:'?3;<3 8 7;<D:*,98:92 8324;6='::?3B3<'8:3?:53&<D3?;=2 8:3 7 B3,:3:3;B6 97 3497328;?3<3 5;D34 92=8<3 92 9=C 2K98?;=;'8:;=;24 9893='8:;8:38<=494 2 853;B3C3:924'8:39<?7 32';24D:954<32'?:=3<3=32D3?98:'8:3<3H97328=?;=.43=89234 8 'D;@=3='7;26 :;<<?92H=D323=4@<92H8:3&<D34 7;<D:3=&8:3*32=@92H?9283<,:36'?3<3&&3<34';'==;H3 8 2H5;24'C@8 8:3 H<3;83<;<8

33';$I,<3 8';=853<3;H:'D8,"M#M,

<3&@=34 /98 ; 24 8:3 D 5 235= 0&< 7 79=8;>32 >92423==P H323<;556 ;55 ?34 8:37 8 7 <D: ?98: 8:39< D < =,

. :3 49<3D89 2 92 ?:9D: 8:3 ;<76 ?;= 8 7 B3 :;4 C332 =388534 92 ;H323<;5 I?;6 C6 8:3 J49= ;8D:34 =328 &< 7 ;=853<3;H: 8 ;5<67 53 92& 3 837:3< * 8 ?;= 8 C3 :354 8 H38:3< 92 ;=92H53 ,7;== ;24 =328 & <?;<4 8 J8:3 C< 8:3<3 8 C3 @8 92 5923 ?98: 5;>3 ;24 ;=8;2 =; 2J;883 7 8 2 8:3 ;<8 &8:3 -@28; 8 ,,49=8<;D8 ;<8 &8 8 ;8;5 29; :;4 C332 &9<756 ;24 B3<6 ?9=356 <3X3D8348 :3 <32D: ?3<3 =8955 2 8:3 43&32=9B3 ?:32 8:3 5;2 .?;=4<;?2 @8X ;24 @<H =: ;4 C332 2;734 ;=8:3 928 ;8?:9D: 8:3 <989=: 8< =7 9H:8 ;97 8 ?;= B3<6 D5 =3 8 8:3 32376 C@8 92 3 837 C3< 2398:3< 2H59=: 2 < ;29=: =8;83=732 ?3<3 8;>92H 928 D 2=943<;89 2 8:3 < C;C9C86 &8:3 ;4B328 &8:3 7 3< < ;24 :9= 97 7349;83 ;==@7 89 2 &8:3 &&32=9B3, :36 ?3<3 <;8:3< 4<3;7 92H &2;4B;2D3 8 ?;<4= 8:3 6<3233= C6 8:3 ;55934 ;<7 93=, &8:3 5;<H3 <392& <D37328= ?:9D: ?3<3 < 79=34 8 <3 ?3<3 43=89234 8 5;24 ;8 <@22;<;8:3< 8:;2 ;8 %9: 2 < ;28;243<98 ?;= 73<356 C3D;@=3 8:3=3 5;883< <8= ?3<3 >2 B2 8 C3 =7 ;55 ;24 43=898@83 &63= 97D3= 2 8 C3D;@=3 8:36 ?3<3 D 2V =943<34 8 C3 4;2H3< @=56 23;< 8 8:3 <32D: ; 7;2;)= 49B9=9 2 98 ?955 C3 <37337C3<34 ?;= ;D8@;556 @8 ;=: <3 ;8 ;2V 8;243<K 98 9= J@983 ==9C53 8:;8 9< ;B94 ;9<4A= 8< = 79H:8 :;B3 C332 =328 8 8:3 =; 733 43=892;89 2 C@8 & < 8:3 & <8@2;83 &;D8 8:;8 98 ?;= C3593B34 8:;8 98 ? @54 C3 97 ==9C53 8 =@ 56 :97 ?98: 8<;2= <8 &< 7 8:3 C;<3 ;24 <@HH34 <3H9 2 &8:3 28;2;, <@22;?;= =353D834 ;=8:3 5;2492H. 5;D3 & < ;55 8:3 <3H97328= 8:;8?3<3 8 X 92 <3 ;<856 2 ;DD @28 &98= =;&3 ;24 = ;D9 @= <8 ;<856 C3D;@=3 98 ? f= C3593B34 8:;8 & 4 ;24 4<;@H:8 ;297 ;5= D @54 C3 D 553D834 ?98: D 7 ;<;89B33;=3 &< 7 %;59D9;

<3 8:;2 $ ### 732 92D5@492H 8:<33 <3H97328= &D;B;5<6 08598 3 ;<7 92 ?:9D: 8:3 & <D3 92 <8@H;5 ?;= 7 =8 43&9D9328P ;24 ;C<9H;43 &8:3 %@;<4=: ;4 C332 4<;?2 &< 7 8:3 : 73 H;<<9= 2=, :3 D:;<H3 &8:9= &923 49B9=9 2 :;4 C332 H9B32 8 9< ;B94 ;9<4 ;2 &&9D3< ?98: ;H<3;8 249;2 <3 @8;89 2 C@8 D 7 ;<;89B356 @2.

;=853<3;H: 8 ;5<67 53 3 8, $ M#M,

8 9= &;9< 8 8:9= 49=892H@9=:34 &&9D3< 8 =8;83 8:;8 :9= 49= ;8D:3= ;24 53883<= =: ?2 8<;D3 ?:;83B3< &8:3 9<;=D9C53 ;24 97 <;D89D;C53 837 3< 8:;8 :;= C332 ;88<9C@834 8 :97, :36 ;<3 7 =8=32=9C53 D;@89 @= ;24 <@4328 ;24 2 8 ;8 ;55 ?:;8 79H:8 :;B3 C332 3G 3D834 &< 7 8:3 :3< &8:3 =8 <6 &7 8:3 5;4 8:;8 ?;= D:;9234 8 @< ;B93, 1 *

HJ<' # " ' ' # ' E &*' , .

<;D89=34' 92' @< 3;2' ?;<&;<3,' :36' ?3<3' 37C;<>34' ;8' ;2B9D:'
<8=7 @8:' ;7=H;83' ;24' <>' ;8' B;<9 @=' 4;83=' 4@<92H' 3 V
837C3<' ;24' D8 C3<' ;24A 2' 8:3' 8:9<83328:' &' 8:3' 5;883<' 7 28:'
8:3' 7;92' C 46' &' 8:3' & <D3' <3;D:34' 272;,' 6' = 73' =8@ 94'
79=7;2;H37328' ;8' : 73' 8:3' D;B;5<6' 8:3' 7 =8' 97 <8;28' ;9A8'
&' 8:3' 3G 34989 2' ?3<3' =:9 34' &&' 8:3' 5;=8' ;24' 494' 2 8' ;<<9B3'
8955' 8:<33' ?33>=' ';&83<' 8:3' <3=8' &' 8:3' 8< =' :;4' <3;D:34' ;92,
6' D8 C3<' M' <3' <3 <834' 8:;8' 8:3' H<3;83<' ;<8' &' :9=
8< =' ?3<3';5<3;46' 92' 7 89 2' ;24';=' ;9<4A=' 92&;28<6' :;4' <3;D:34'
<@22;' 2' 8:3' 8:9<83328:' 98' 79H:8' :;B3' C332' 3G 3D834' 8:;8' 8:3'
X97D89 2' &' 8:39<' & <D3=' ? @54' :;B3' 8;>32' 5;D3' 92' 897 3' 8 ' 32;C53'
8:37' 8 ' 5;6';' ;<8' 92' 8:3' 43&32=9B3' D;7 ;9H2';H;92=8' ; 53 2'
?:9D:' 32434' 92' 8:3' &; ' &' ;4<94' 2' 3D37C3<' L,' &' 8:3' 8< =
:;4' 7;<D:34' < 7 856' ;24' C6' 8:3' C3=8' ;24' =: <83=8' < @83=' 8:36'
79H:8' :;B3' 3;=956' D 2D328<;834' ;8' ;5;7;2D;' C6' 8:3' 7 94453' &'
B37C3<K' ; 93<' =@HH3=8=' 8:3' 8:9<83328:' ' ;=' ;' < C;C53' 4;6';24'
D 2=943<92H' 8:3' 49=8;2D3=' 8:3' 4;83' =337=' ;' B3<6' <3;= 2;C53' 23,'
8' 8:;8' 7 7328' %;7 2;5';24' = 92 =;':;4' 256'X@=8' C332' & @H:8'
;24' 5 =8K' @435;' ?;=' 638' 832' 4;6=' 92' 8:3' &@8@<3K' =9G8332' 4;6='
?3<3' 8 ' 35; =3' C3& <3' 8:3' 7 =93<<;' ?;=' & <D34,' 8' \9=' D53;9A 8:;8'
8:3' <989=:';<76' ?:9D:';8' ;7;2D;' ? @54':;B3' C332' 256' =3B32'
7;<D:3=' 0 #' 7953=P' &< 7' ;4<94';24' & @<' 7;<D:3=' 039H:86' 7953=P'
&< 7' /;55;4 594' 79H:8):;B3' 9283<B3234' 92' 8:3' =8<@HH53K' ?:38:3<'
98=' 9283<B3289 2' 79H:8' 2 8' :;B3' 32434' 92' 49=;=83<' D 2=943<92H' 8:3'
32 <7 @=' & <D3=' &' 8:3' <32D:' 9=';2 8:3<' 7;883<,' @8' 8:3' <989=:'
% B3<2 7328' 92832434' 8:;8' <3' ;24' ;9<4' =:@54' 8;>3' ;<8' 92'
8:3' D;7 ;9H2K' 8:3' -@28;':;4' C332' 8 54' 8 ' 3G 3D8' 8:39<' :35 K' ;24'
& <' 8:3' D 2= 594;89 2' &' 8:3' ;559;2D3' C38/332' 8:3' 8? ' 2;89 2=' 98'
?;=' 43=9<;C53' 8:;8' 8:3' :35 ' =:@54' C3' H9B32' 92' 8:3' 7 =8' < 7 8'
d824 3&&3D89B3' &;=:9 2,

593<3' 9=' 2 ' ==9C95986' &';==3<892H' 8:;8' 8:9=' ?;=' 4 23,' <3'
;24' ;9<4' 494' 2 8' X 92' 8955' 3D37C3<' $#K' 2 ' <989=:'=5493<' &9&34'
;' =92H53' =:8';8';' <32D:7;2' C3& <3' 3D37C3<' $':' :3' ?:53

* :3' 8:' ;24' #8:' @==;<=' ;;<32856' 2' B X ' 8593' 8:' @==;9A=' 2'
B,' $,' 33' ;9<4' 8 ' ;=853<3;H:' B,' M';24' I M#M,
' ;93<' 9,' .
+ 8' 9=' 8 ' C3' <37337C3<34' 8:;8' ;9<4A=' D;B;5<6' ? @54' 2 8' :;B3' C332' @ ' 8955'
B,' $#.$ ' ?92H' 8 ' 98=' 8;<46' =8;<8' &< 7' 2H5;24,' 8:92H' D @54':;B3'
C332' 7 <3' @25@D>6,
* 8' 8:3' =>9<79=:';8' @34;' 2' 8:;8' 4;83,

;<7 6 = 7 @D: @8 &8:3 D;7 ;9H2 8:;8 2; ;<83 23B3< D @543;53;<2 ?:;8 :;4 C3D 73 &98 ;24 &<7 34 8:3 7C=8 3<< 23 @= :6 8:3=3= D 2D3<292H 98= =989 2 ;24 92832 89 2=, 3 7 ;6 &<;2>56 =;6 8:;8 2 8 23 &:9= 7 B37328=4 ?2 8 8:3 &;55 & ;4<94 ?;= 92 8:3 53;=8 92&5@32D34 C6 8:3 &;D8 8:;8 8:3<3 ?;= ; <989=: & <D3 92 ;92,

:;8 8:9= D9<D@7=8;2D3 ?;= 7 =8 @2& <8@2;83 &< 7 8:3 5989D;5 928 &B93?98 ? @543 C3 D:9549=:8 4326, 8 H;B3 49=D 2832834 ;29;<4= 8:3 <8 7 9986 &;==3<892H 8:;8 8:36 :;4 C332 43=399 34 ;24 C38<;634 C6 8:39< ;5593= 8 ;&& <434 2; ;<83 8:3 D:;2D3 ,h :9D: :3 494 2 8 &;95 8 8;>3 &325;<H92H @ 2 8:3 92B;<9;C53 =3589=:23== ;24 89 7 9498 6 &8:3 <989=: 8 &8@.29=:34 8:3 D<989D= & 8:3 7 929=8<6 92 24 2 ?98: ;83G8 & <43D5;7;89 2= ;H;92XH8 8:3 9 7 C3D95986 &98= ;9<;2H329328=,. 8 9= 8<@3 8:;8 ;&83< 8:3 &;55 & ;4<94 <3 ?;= 32;C534 C6 8:3 23?=98@;89 2 &;&&;9<=8 7 ;>3 8:;8 437 2=8<;89 2 ;H;92=8 8:3 <32D:5923= &D 7 7@29V D;89 2 92 ;=8953 ?:9D: ?<3D>34 ; 53 2A= <9H92;5 5;2 &D;7V ;9H2 ;24 =;B34 9=C 2 ;24 3B9553, @8 8:9= 8;<46 8: @H: 3&&3D89B3 9283<B3289 2 92 8:3 =8<@HH53 ?;= ;73<3 ;&83<8: @H:8, <3A= <9H92;5 5;2 :;4 C332 8 7;>3 ;8;73<38<3;8 2 9=C 2 ?:32 :3 49=D B3<34 8:;8 :3 ?;= 8 5;83 8 =;B3 ;4<94, 8 ?;= ;7 73<3 D:;2D3 8:;8 ;2 9283<D3 834 49= ;8D: ;24 ;2 @2& @2434 <@7 @< D;@=34 :97 8 8:< ?@ 8:3 943; &<389<92H 928 <8@H;5 ;24 8 =8<9>3 ;8 8:3 7 3< <A= &5;2> ;24 <3;< C6 :9= &;7 @= 7;<D: 2 ;:;H@2, 98: @8 8:9= 93D3 &H 4 & <8@23 :3 ? @54 23B3< :;B3 <3 ;9<34 8:3 79=D:93& D;@=34 C6 8:3 5;8323== &:9= <9H92;5 ;29B;5 2 8:3 =D323, 8 :;8 5;83 ;<<9B;5 D;73 8 ;==98 9= 2 ?@ 4@86 8 92B3=89H;83,

= &;< ;= <3A= ?2 ;<76 ?;= D 2D3<234 8:3 5 == &89 73 7;6 C3 ;=D<9C34 8 ;= =92H53 D;@=3 ;7 9=8;>3 7;43 92 8:3 D: 9D3 &8:3 <;4= C6 ?:9D:8:3 <9H92;5 9283289 2 &8:3 <989=:H323<;5 8 7;<D: 2 57394;;24 9@4;4 4<9H C6 8:<33 ;9.;5535 <@83=8: =3 C6 97C<;;24 35 <9D C6 C<;283= ;=8355 <;2D ;24 %@;<4;; 24 C6 5B;= 5D;28;<;;24 <9; 3?;= D 7 35534 8 @8959R3

33 8:3 53883<= &< 7 ;29=: &&9D3<= 92 8:3 ' '& < 3D, " M#M,

* 33 8:3 3D, : $;24 8:3 92= 9<34 ;<89D53= 92 8:3 ' ' & < 3D, L,

* <3 8 ;=853<3;H: D8, "K) 593 7;<D: &< 7 8:9= ?955 :3 C6 8:3) 8:<33 <;4= 97C<;%@;<4;;24 5D;28;<;,A

L " 9 Q # " # E 9 A

8 : 3 5 ; =8.2 ; 7 34 < ; 4 ? : 9D : ? ; = <; 8 : 3< D9<D@98 @= ; 24, 2 8 <9 @=56 C ; 4 C6 8 : 3 &; D8 8 : ; 8 ; 5<6 7 53 : ; 4 53&8 3 8? C<9H ; 43= ; 8 56 ; ; 24 8 : ; 8 ; 26 ; 4B ; 2D3 &< 7 8 : ; 8 5 ; D3 928 8 : 3 >92H4 7 & 3 2 D @54 256 C3 49<3D834 ; D< == 8 : 3 C<94H3 & 5D ; 28 ; <; , & <3 : ; 4 =8@D> 8 8 : 9= <9H92 ; 5 <3= 5B3 ; 24 @=34 2 23 C@8 8 : 3=3 8 : <33 < ; 4= : 9= ; <7 6 7 9H : 8 : ; B3 C332 D 2D328<; 834 ; 8. ; 5 ; 7 ; 2D ; 2 < ; C @8 B3 7 C3< I, : 9= D @54 : ; B3 C332 4 23 ? 98 : 3 ; =3 9& ; 55 8 : 3 <3=3<B3 ; <89553<6 ; 24 : 3 ; B6 C ; HH ; H3 : 354 8 ; >32 8 : 3 9 7 C<; 35 <9D < ; 4 8 : 3 3 ; =93=8 &8 : 3 8 : <33 ; 24 2 8 : 92H C@8 ; 2 9<<34@D9C53 7 9297 @7 : ; 4 C332 ; 55 ? 34 8 & 55 ? 8 : 3 D 5@7 2= ? : 9D : ? 328 C6 8 : 3 8 : 3< < @83=, 8 ? @54 : ; B3 C332 23D3==; <6 ; 5= 8 7 B3 8 : 3 8< = 92 7 ; ==3= &A 2 8 53== 8 : ; 2 ; C<9H ; 43 ; 24 8 >33 8 : 3 7 ? 355 D5 =34 @ ,

<3 : ; 4 8 : 3 C3=8 92832 89 2=K : 3 D@8 4 B2 8 : 3 C ; HH ; H3 8 ? : ; 8 : 3 D 2=943<34 8 : 3 = 7 ; 553=8 <; D89D ; C53 C@5> ; 24 =8 ; <834 &&8 : 3 53 ; 492H <3H9 7 328= 2 8 : 3 9 7 C<; < @83 ; = 3 ; =956 D8 C3< 8XB 4 ; 6= ; &83< : 3 : ; 4 8 ; >32 B3 8 : 3 D 7 7 ; 24 0 % ; 7 =@&&9D93 2856 ; ? ; <3 K : 3 ? < 83 T &)8 : 3 9 7 <8 ; 2D3 & 3B32 8 : 3 2 ; 7 3 & ; <989= : ; < 7 6 92 ; 92 ; 24 ; 7 : @<<692H ; = 7 @D : ; = ==9C53 J : 32 & 55 ? 34 ; 2 9<<3 ; <; C53 7 9=8 ; >3K 98 ? ; = ; 55.9 7 <8 ; 28 8 &924 @8 ? : 9D : & 8 : 3 < ; 4= ? ; = 7 =8 =@98 ; C53 & < ; <89553<6 ; 24 : 3 ; B6 C ; HH ; H3, <3 D 2=@5834 8 : 3 ; B ; 95 ; C53 &&9D3<= & 8 : 3 54 <8@V H@3=3 ; < 7 6 ; 24 <3D39B34 &< 7 8 : 3 7 8 : 3 ; 57 =8 92D<349C56 3<< 23 @= 92& < 7 ; 89 2 8 : ; 8 2398 : 3< 8 : 3 9 7 C<; . 35 <9D 5 7 394 ; < ; 4 2 < 8 : 3 C<; 283= %@ ; <4 ; 5 7 394 ; < ; 4 ? ; = <; D89D ; C53 & < ; <89553<6, 8 ? @54 =337 8 : ; 8 : 3 ; 5= = @H : 8 92& < 7 ; 89 2 &< 7 8 : 3 &&9D3<= ? : 7 ; 596 7 53 : ; 4 =328 @8 928 8 : 3 < B92D3 & 39<; ; 24 8 : ; 8 8 : 39< ; 2=?3<= 8 ; 55934 ? 98 : 8 : =3 &8 : 3 <8@H@3=3 b & < : 3 ?< 83 8 ; =853<3 ; H : 8 : ; 8 T 3B3<6 92& < 7 ; 89 2 ; H<334 8 : ; 8 2398 : 3< &8 : 3 7 ? ; = &98 & < 39<89 3<6 < D @54 C3 <3D 7 7 32434 & < D ; B ; 5<6, % 323<; 5 2=8<@8 : 3< 8 : 32 92 D 7 7 ; 24 ; 8 57 394 ; 7 @=8 8 ; >3 ; D 2=943<; C53 = : ; <3 92 8 : 3 C5 ; 7 3 8 : ; 8 : ; = 8 C3 49=8<9C@834 8 ,8 : =3 ? : & ; 9534 8 H963 8 : 3 7 7 ; 243<.92.D : 93& ; DD@<; 83 92& < 7 ; 89 2,

* <3 8 ; =853<3 ; H : D8, ",

* C94, D8, ; ,

* <3 ; 5= D 2=@5834 5 235 3R 8 : 3 ; 29= : &&9D3< ? : : ; 4 C332 =328 8 : 9= : 3 ; 4 J@ ; <83<= C6 8 : 3 -@28 ; ; = C39@H = 3D9 ; 556 =>95534 92 < ; 4= ; 24 8 H<; : 6, @8 3R 49=D5 ; 9 7 34 ; 26 >2 ?534H3 ; 24 D @54 256 = ; 6 8 : ; 8 -@2 8= ; <89553<6 : ; 4 C332 23 ; <56 <@9234 C6 8 : 3 < ; 4= C38 ? 332 9@4 ; 4 4<9H ; 24 C<; 283=,

M##M]' ' ' ' ' ' F' L"

& <' :3' 7 83' 8: ;2' ;26' 23' 35=3' : ;4' C332' H9B32' 8:3' D: ;2D3' &' 89692H' 8:3=3' < ;09>' @8' ?: ;83B3<' 7 ;6' C3' 8:3' < <89 2' 92' ?:9D:' 8:3' D32=7A3' 7@=8' C3' 49=8<9C@834' ;' D3<8;92' ;7 @28' 7@=8' C3' <3=3<B34' & <' <3' :97=35&,' 3' @H:8' 2' &9<=8' <92D9 53)=' 8' : ;B3' <3&@=34' 8' C3593B3' 8:3' =8<;2H3' 23?=' 8: ;8' ?;=' C< @H:8' 8' :97,' 8' 79H:8' : ;B3' DD@<<34' 8' :97' 8' ;=>' : ?' :3;(.6' H@2=' &' =989 2' : ;4' & @24' 8:39<' ?;6' 8' 8:3' <;7 ;<8=' &' 57394;' 8:3' =3D 24' & <8<3==' &' <8@H;5' 9&' 8:3<3' ?;=' 2' <;D89D;C53' < ;4' 53;492H' 8' 98,' '&3?' 792@83=' = 328' 92' D 2=@5892H' ;26' C >' 43;592H' ?98:' 9A8@H993=3' :9=8 <6' ? @54' : ;B3' =: ?2' 8: ;8' 92' 8:3' H<3;8' ?;<=' &' 8:3' ;29=:' @DD3==9 2' ;24' ;H;92' 92' 8: ;8' &' N$' & <D3=' &' ;55' ;<7=' : ;4' 7 B34' &<3356' @' ;24' 4 (B2' 8:3' ;29=:' &< 2893<' 92' 8:3' 49<3D89 2' &' 35 <9D;' %@;<4;' ;5X@H;5' ;24' ;=83 ' <;2D ,' B32' ;' H5;2D3' ;8' @7 @<93RA=' ' ' ' 9 * ' # * ' 8:3' 23' 7 437' 79598;<6' C >' 2' 8:3' =@CX3D8' 8:32' ;B;95;C53' ? @54' : ;B3' 32;C534' <3' 8' D <<3D8' 8:3' 9H2 <;28' <3 <8=' &' 8:3' 2;89B3=,' 8<;2H3=8' &' ;55' 8:3<3' =337=' 8' : ;B3' C332' 2' 23' 8' 8355' :97' 8:;8' 256' & @<' 7 28:=' C3& <3' 9= 2' 92' :9=' D;7 ;9H2' ;H;92=8' 8:3' 92=@<H328=' &' 39<;' : ;4' 8;>32' H@2=' &9<=8' &<A 7' 9=C 2' 8' 57394;' 8:32' &9. 7' 57394;' 8' 3R' 43' ;H ;' ;24' /9R3@' ;24' &92;556' &< 7' 57394;' 8' C<;283=' *,' 8' 9=' =97 56' ;=8 @2492H' 8:;8' 2' 23' =337=' 8' : ;B3' <37 37 C3<34' 8:9=' =97 53' &;D8,' 2' =: <8' 98' ?;=' 2 8' 3;=956' ;<4 2;C53' 92' 26' D 7 38328' H323<;5' 8:;8' :3' =: @54' ;DD3 8' ;=' ==9C53' 8:3' =8;837328' 8:;8' 8:3<3' ?;=' 2' < ;4' & <' ;<89553<6' D 2V 23D892H' 8:3' D; 98;5' &' <8@H;5' ;24' 8:3' 7;92' =8< 2H: 54' &' 98=' 2 <8:.3;=83<2' &< 2893<,' <3' 494' = ' ;24' 92' ;' & <829H:8')B6;=' C9883<56' <3H<38892H' :9=' D<34@5986,' ' &' ;268:92H' ;4B3<=3' :; 32=A' :3' ?< 83' 8' :9=' =@C <492;83' 3' ' ' : ;B3' 2 8' 23D3==986' 8' 53;4K' 8:3' < ;4' ?3' ;<3' 2 ?' 8<;B35592H' W C<;283= /9 ;' /35:; %@;9.4;]' 9=' <;D89D;C53' & <' ;<89553<6K' 8:3' C<9H;43' @243<' 957 C8' : ;=' ;5<3;46' <3=9D:34' %@;<4;' ' ;24' ;=' &;<' ;=' ' : ;B3' ;5<3;46' =332' 8:3' < ;4' <3V =328=' &3?' C=8;D53=' ' ;24' 8: =3' 3;=956' =7A92 @2834,' :9=' >2 ?534H3' ?;=' 256' ;DJ@9<34' C6' @<' ?2' &&9D39A=K' ?:32' 8:3' C<9H;43' ?;=' ;8' ;=83 ' <;2D ' 98' ?;=' =8955' 2 8' D3<8;92' 8:;8' 98' D @54' < D334 ' 3,'6' 92' #N' <4' %;5?;6' 8 >' B3<' & <86' H@2=' 88B35B3' &' ?:9D:' ?3<3' :3;B6' =93H3. 93D3=' &< 7' 5B;=' C6' 5D;28;<;' ;24' <9;' 8' 9@4;4' 4<9H ,' 2' N$' 8:3' ;29;<4=' 8 >' 2 ' 53==' 8:;2' 292386' H@2=' &< 7' 9@4;4' 4<9H ' :6[' 35 <9D ' ;24' ;C@H;5' 8 ' ;=83 ' <;2D ' ;24' 8:32D3' C;D>' 928 ' ;92,

* ; 93< 4 3=' 2 8' =337' 8 ' >2 ?' 8:9=' ;24' 49=892D856' =8;83=' 09,' #$P' 8:;8' C 9= 2' :;4' 2 ' H@2=,

' <3' 8 ' 3 ' &< 7' 57394;' B,' M,

/ : ;8 7 ;43 8 : 3 D; =3 ? <=3 ? ; = 8 : ; 8 ; 2 8 : 3< &8 : 3 8 : <33 < ; 4= 8 : 3 23 C6 9 7 C<; ; 24 35 <9D ? ; = &; < 3; =93< 8 : ; 2 8 : ; 8 C6 %@; <.4 ; , 8 : 3553=536 ; 24 ; ==3 : ; 8 > 32 <7 @= 8<; 92= &; <89553<6 ; 24 C ; HH ; H3 B3< 98 92 M # ? 98 : @8 ; 26 ; <89D@5 ; < 49&&9D@586

9=534 C6 8 : 3 3<< 23 @= <3 <8= ; = 8 8 : 3 9 7 <; D89D ; C95986 &8 : 3 <8@H@3=3* < ; 4= <3 8 > 8 : 3 @2 : ; 6 =83 &=32492H =9G &8 : 3 =3B32 C ; 883<93= &: 9= D 9. = : 9= 256 8? D ; B ; 5<6 <3H9 7 328= ; 24 & @< C ; 88 ; 59 2= &92&; 28<6 8 ; D8 ; = 3=D <8 * C6 8 : 3 D9<D@98 @= : 9H : .< ; 4 &< 7 5B ; = 8 ; 4<94, 2 <43< 8 <3 ; D : ; 5 ; 7 ; 2D ; 8 : 36 ?3<3 8 ; 4B ; 2D3 ; 57 =8 8 8 : 3 H ; 83= &8 : 3 ; 29= : D ; 98 ; 5 256 89 7 992H &&; 8 ; 5 ; B3<; 92 <43< 8 8 ; > 3 8 : 3 < @83 C6 8 : 3 =D@<9 ; 5 = 92 ; < ; 24 <3B ; 5 , = : ?8 : 3 <3=@58 &8 : 9= 5 ; 7 328V ; C53 49B ; H ; 89 2 &8 9= 256 23D3==; <6 8 <3 7 ; <> 8 : ; 8 &< 7 9=C 2 8 ; 5 ; 7 ; 2D ; B9 ; 97 C<; 9= ; C @8 $ # 7 953=K &< 7 9=C 2 8 ; 5 ; 7 ; 2D ; B9 ; 5B ; = ; 5 ; B3<; ; 24 <3B ; 5 9= ; C @8 IM# 7 953=K 9, 3, 98 ? ; = D3<8 ; 92 8 : ; 8 8 : 3 D 5@7 2 D 28 ; 9292H ; 55 <3A= D ; B ; 5<6 ; 24 23 ; <56 ; 55 : 9= H@2= ? @54 C3 ; 8 53 ; =8 =3B32 < 39H : 8 4 ; 6= 5 ; 83 ; 8 8 : 3 <3243RB @= 92 ; D<9=9= ? : 32 3B3<6 7 7328 ? ; = &B98 ; 5 97 <8 ; 2D3, = ; 7 ; 883< &; D8 8 : 3 : 3 ; 4 &8 : 3 7 ; 92 D 5@7 2 <3 ; D : 34 ; 5 ; 7 ; 2D ; 2 B3 7 C3< I K 8 : 3 D ; B ; 5<6 ; 24 H@2= 8@<234 @ : 3D3 7 C3< L, 8 ? @54 2 8 C3 &; 9< : ?3B3< 8 =; 6 8 : ; 8 8 : 3 ; C=32D3 & 3A= D 5@7 2 435 ; 634 8 : 3 ; 4B ; 2D3 &8 : 3 ? : 53 ; <7 6 & < = 7 @D : ; = 8 : <33 ?33>=, 8 ? ; = 256 8 : 3 53 ; 492H <3H9 7 328= &< 7 9=C 2 8 : ; 8 ; 3 ; <34 2 B3 7 C3< I, ?3B3< D ; <3&99 6 8 : 3 7 ; <D : &8 : 3 <3=8 : ; 4 C332 ; <<; 2H34 8 : 3 <3 ; < D @54 2 8 : ; B3 D 7 3 92 8955 =3B3<; 5 4 ; 6= 5 ; 83<K 924334 8 : 3 5 ; =8 C<9H ; 43 494 2 8 ; 3 ; < 8955 8 : 3 8? 3286.8 : 954K 8 : 9= 435 ; 6 : ?3B3< ? ; = ?92H 8 C ; 4 ; <<; 2H3 7 328= ; 24 <3B328 ; C53 ; DD94328=, @8 98 D ; 2V 2 8 C3 432934 8 : ; 8 8 : 3 8? 35B3 4 ; 6= B, $I 3D, L ?3<3 D 7 V 538356 = ; D<9&9D34 C6 8 : 3 2 2. ; <<9B ; 5 &8 : 3 D ; B ; 5<6 ; 24 H@2= ? 8 : @8 ? : 9D : <3 B3<6 ?9=356 <3&@H34 8 7 B3 & <? ; <4, &8 : 3 ; <7 6 : ; 4 C332 D 2D328<; 834 ; 9<4 D @54 3 ; =956 : ; B3 ; <<9B34 &< 7 <@22 ; 3<3 8 : 9= 98 ? @54 : ; B3 C332 ; C53 8 ; 4B ; 2D3 2 B3 7 V C3< $I ; 24 8 : 3 D ; 7 ; 9H2 ? @54 @24 @C83456 : ; B3 C332 7 49&934

* 2 3243 ; B @<92H 8 3GD@=3 <3 ; 93< 8 ; >3= 8 : 3 =8< ; 2H3 D @<=3 &7 ; >92H @8 8 : ; 8 8 : 3 %@; <4 ; < ; 4 8 : @H : @=; C53 ; = 3G 3<932D3 = : ?34 ? ; = T 92 ; 7 9598 ; <6 =32=3 2 2. <; D89D ; C53) &< 7 98= 49&&9D@5893=, : 9= ?955 2 8 =8 ; 24 92 &; D3 &8 <3A= ? <4= J@ 834 ; C B3, &8 : 3 97 C<; 35 <9D < ; 4 : 3 798= ; 55 73289 2 09, IL P,

* : 3=3 ?3<3 8 : 3 $24 IN8 : =8 ; 24 "$24 8,

92 98= D : ; < ; D83< & < 8 : 3 7 3< < ? @54 : ; B3 53 ; <28 &8 : 3 ; <<9B ; 5 & <3 @ 2 8 : 3 =D323 = 7 3 4 ; 6= C3& <3 : 3 D< ==34 8 : 3 7 . =93<< ; 24 =8 ; <834 2 : 9= 7 ; <D : & < ; 4<94, : 3<3 D ; 2 C3 2 4 @C8 8 : ; 8 : 3 ? @54 : ; B3 D : ; 2H34 : 9= 5 ; 2= 2 <3D39B92H =@D : 23? = & < 8 : 3 =9H : 8 &8 ; <989= : ; < 7 6 ? 8 : 92 =8<9>92H 49=8 ; 2D3 ? @54 : ; B3 D ; @=34 : 97 8 8@<2 ; =943 ; 8 2D3 ?98 : ; 5 ; <H3 ; <8 &8 : 9= ; <7 6, / 3<6 < C ; C56 : 3 7 9H : 8 : ; B3 49<3D834 3&3CB<3 / 9D8 < ; 24 8 : 3 7 3<9 ; 5 %@ ; <4 ; 55 8 : 3 49= = ; C53 & <D3= @243< : 9= : ; 24 ; H ; 92=8 <3 ; 24 : ; B3 53&8 ; 4<94 ; 5 23 & < 8 : 3 <3=328 ; = ; 7 3<3 =3D 24 ; <6 CX3D8, 8 9= 97 ==9C53 8 4326 8 : ; 8 49= ; =83< 8 8 : 3 <989= : ; < 7 = 7 9H : 8 : ; B3 & 55 ? 34K 2 8 : 3 8 : 3< : ; 24 <3 ? ; = ; D ; @89 @= H323< ; 5 ; = : 9= 3< ; 89 2= 92 3D3 7 C3< = : ?34, 3 ? @54 < C ; C56 : ; B3 <389<34 ; 8 2D3 8 8 : 3 7 @28 ; 92= ; 24 53&8 8 : 3 7 3< < ; &<@9853== =83<2.D : ; =3 =@D : ; = 8 : ; 8 ? : 9D : ; D8@ ; 556 8 > 5 ; D3 ; 7 28 : 5 ; 83<, @8 ? : 38 : 3< : 3 ? @54 : ; B3 & ; 5532 C ; D> 2 8 : 3 < @83 8 <8@H ; 5 < 2 8 : 3 < @83 8 % ; 59D9 ; 98 9= 97 ==9C53 8 = ; 6K 3B3<68 : 92H ? @54 : ; B3 43 32434 2 8 : 3 3G ; D8 43B35 7 328 & ; 53 2A= ; 4B ; 2D3 C@8 8 : 3 &9<=8.2 ; 7 34 ; 583<2 ; 89B3 9= 8 : 3 7 <3 < C ; C53

; 93< 59 ; = ; 5 2H 2 83 92 X@=89&9D ; 89 2 & <3 8 8 : 3 3&&3D8 8 : ; 8 98 8 : 3 D 2D328<; 89 2 928 &8 : 3 <989= : ; < 7 6 : ; 4 C332 @<H = 92=83 ; 4 &8 ; 5 ; 7 ; 2D ; 3A= 438 @< ? @54 : ; B3 D =8 2 ? ; =83 &8 9 7 3 ; 24 ? @54 : ; B3 C332 <; 8 : 3< < &98 ; C53 8 : ; 2 8 : 3<?9=3, @8 <3 49=892D856 5 >34 @ 2 8 : 3 7 B3 7 328 ; = ; 43 5 <; C53 23D3==986 2 8 ; = ; < 3< =8<; 83H9D ; 5 < D33492H,) 8 9= ; H<3 ; 8 < @24 K : 3 ?< 83 8 ; =853<3 ; H : 2 D8 C3< $? : 32 ; 22 @2D92H 8 : 9= 7 49&9D ; 89 2 &8 : 9= <9H92 ; 5 5 ; 2 T ; 24 ?955 =3 ; <; 83 8 : 3 D < = & < ; 89 7 3 &< 7 8 : 3 <3=8 &8 : 3 ; <76 K <3 B3< : 3 =8 ; 834 92 8 : 9= = ; 73 53883< 8 : ; 8 : 3 ? @54 2 8 7 B3 & <? ; 94 ; 2 92D : &< 7 ; 5 ; 7 ; 2D ; 8955 3 = : @54 : ; B3 <3 ; D : 34 = 9@ ; < 2 8 : 3 2 <8 : 3<2 =943 &8 : 3 %@ ; 4 ; <; < ; 7 ; ; ==, 8 ; 5 ; 83< 4 ; 83 : 3 ; 22 @2D34 8 : ; 8 : 3 = : @54 2 8 ; 4B ; 2D3 8955 3 : ; 4 H 8 3B32 23 ; <3< 8 : 97 ; 24 7 ; 43 : 9= ? ; 6 ; = & ; < ; = <3B ; 5 W53883< &8 B, $L], 3 ? ; = 8 H 4 ; H323< ; 5 8 4<3 ; 7 &8 ; D 2D328<; 89 2 ; 8 @<H = ? : 32 2D3 : 3 : ; 4 ; =D3<8 ; 9234 8 : 3 <35 ; 89B3 =989 2= &8 : 3 ; 29= : ; 24 8 : 3 <32D : ; < 793 = & < 8 : ; 8 5 ; D3 ? ; = ?98 : 92 ; D @ 53 &8 7 ; <D : 3= &8 : 3 3237 6A= @8 =8= ; 8 9<; 24 ; ; 24 H< &9 , 5G3<3 9= 92 = : <8 2 ? ; 6 &8 X@=89&692H 3A= D9<D@5 ; < 7 ; <D : ? : 32 2D3 98 9= H<; 2834 8 : ; 8 8 : 3 < ; 4= &8 <8 : 3<2 <8@H ; 5 ?3<3 2 8 97 <; D89D ; C53 & < ; <89553<6, <3 >23 ?' 8 : 9= 3<&3D856 ?355 ; = : 9= 53883< 8 3 ? : 9D : ?3 : ; B3 J@ 834 2 , L" = : ?=, ; <H@ 7328= ; <3 GB <8 : ; 268 : 92H 92 : 9= X@=89&9D ; 89 2 ? : 32 : 3 : 97 =35& ?<983= T 9& ; 268 : 92H ; 4B3<=3 : ; 32= ; G)3 2 8 23D3==986 8 53 ; 4, K : 9= 9= 8 : 3 5 ; 2H@ ; H3 &8 ; 2 : 23=8 7 ; 2 D 2=D9 @= 8 : ; 8 : 3 : ; = 7 ; 43 ; 79=8 ; >3 ; 24 <3 ; <34 8 8 ; >3 8 : 3 <3= 2=9C95986, ; 93<A= ; 5 H6 & < : 97 09, I L . P 9= 5[@8 92H329 @= ; 24 35 J@328 D ; =@9=8<6

0' >

: 3' 3<< 23 @=' 49<3D89 2' H9B32' 8 ' <3A=' D;B;5<6' ;24' H@2=' : ?3B3<' ?;=' 2 8' 8:3' 256' <3;= 2' & <' 8:3' 5;83' ; 3;<;2D3' &' 8:3' <989=:' ;9A76' @ 2' 8:3' 8:3;8<3' &' ?;<, 57 =8' ;=' 7@D:' 435;6' ?;=' D;@=34' C6' ;' 93D3' &' 3H<3H9 @=' & 556' ;24' < D<;=892;89 2' & <' ?:9D:' 8:3' ;29;<4=' ?3<3' ?: 556' <3= 2=9C53,' \ :32' 9<' ;B94' ;9<4' ;24')8:3' C@5>' &' :9=' H<3;8' D 2B 6' ;<<9B34' 92' 8:3' :;<C @<' &' <@22;' 2' D8 C3<' I' :3' ?;=' ;=8 29=:34' 8 ' &924' 8:;8' 8:3' -@28;' &'%;59D9;'<;9=34'=3<9 @=' CX3D89 2=' 8 ' ;55 ?92H' :97' 8 ' 5;24,' :39<' <3;5' <3;= 2' & <' = ' 4 92H' ?);=' 8:;8' 8:36' ?9=:34' 8:3' <989=:' 8< =' 8 ' 49=37C;<>' &@<8:3<' 3;=8' ;8' %9: 2' <' ;28;243<,' :36' 494' 2 8' <3;59R3' 8:3' 7 9598;<6' 4;2H3<' &' 8:< ?92H' 8:37' ;=: <3' 92' 5;D3=' = ' D5 =3' 8 ' 8:3' <32D:' ;<76' 2 <' 494' 98' ;&&3D8' 8:37' 92' 8:3' 53;=8' ?:32' 8:36' ?3<3' 8 54' 8:;8' 8:3' 3J@9 7328' &' ;9<4A=' & <D3' 92' 8: =3' C;<<32' <3H9 2=' ? @54' C3' ;57 =8' 97 ==9C53,' 55' 8:;8' 8:36' D;<34' & <' ?;=' 8 ' <3=3<B3'%;59D9;'&< 7' 8:3' =8<;92' &' :;B92H' 8 ' 7;>3' < B9=9 2=' & <' 8:3' &33492H' ;24' 8<;2= <8' &';'=3D 24';<76' ?:32' ;55' 98=' <3= @<D3=' :;4' C332' = <356' 8<934' 92' =@ 542H' 0;24' =@ 5692H' 7 =8' 924&&3<32856P' 8:3' 8< =' &' 5;>3,' :36' 494' 2 8' : ?3B3<' 7;>3' 7 3289 2' &' 8:39<' <3;5' CX3D89 2=' 8 ' ;9<4A=' 49=V 37C;<>;89 2' 92' 8:39<' D <<3= 2432D3' ?98:' :97' C@8' ;==@7 34' ;2' ;8898@43' &' B3<6' =@= 9D9 @=' :@7 95986' =8;892H' 8:;8' 8:36' D 2=943<34' 8:39<' &@2D89 2=' 8 ' :;B3' D 73' 8 ' ;2' 324' 2 ?' 8:;8' 8:3' 328<;5'-@28;' :;4' 7 38' ;24' 8:;8' 8:36' 8: @H:8' 98' C36 24' 8:39<' D 7 3832D3' 8 ' H9B3' D 2=328' 8 ' 8:3' 5;2492H' &' =@D:';' 5;<H3' C 46' &' 732' ?98: @8' 3G 59D98' 49<3D89 2=' &< 7' <;2X@3R,' ;9<4' D @54' 2 8' &&3<' 8 ' 5;24' C6' & <D3' 92' &;D3' &' 8:9=' =989 2,' 3' 494' 2 8' : ?3B3<' 7 B3' &&' 8 ' ;28;243<' 0;=' 8:3' %;59D9;2=' :394' : 34P' C@8' 92=9=834' 8:;8' ;2' &&9D3<' =: @54' C3' < 7 856' 49= ;8D:34' 8 ' 8:3' @ <373'-@28;' :9=' ?;=' 4 23' C@8' 8:3' 435;6' 92' <3D39B92H' ;2' ;2=?3<' ?;=' = ' H<3;8:;8' 8:9<8332' 4;6=' ?3<3' ?;=834K' 8:3' %;59D9;2' &&9D3<' C3;<92H' 8:3' D 2=328' &' 8:3' D328<;5 H B3<2 7 328' 8<;B3534' 0= ' <3' D 7 5;9234P' ?98:' 8:3' H<3;83=8' 4359C3<;89 2' ;=' 9&':3' ?3<3' D;<<692H';2' @297 <8;28' 7 3==;H3' 92' &945' 89 7 3' &' 3;D3' :3' &9<=8' <3H9 7 328=' 8:3<3& <3' 256' 5;2434' 2' D8 C3<' $N' ;24' 98' ?;=' 2 8' 8955' B3 7 C3<' L' 8:;8' ;55' 8:3' 92&;28<6' ?3<3' ;=: <3,' :@=' 8:36' ?3<3' D3<8;92' 8 ' C3' 5;83' ;8' 8:3' <3243RB @=' 92' 8:3' 5;92=' &' 3 2,' <' ?;=' 8:9=' ;55K' 8:3' @ <373' -@28;' : ;4' =@HH3=834' 8:;8' 92' <43<' 8 ' &;D9598;83' 8:3' &33492H' &' 8:3' 49B9=9 2' ;9<4' =: @54' =324' 98' & <?;<4' 2 8' 92' 5;<H3' 7=9==3=' C@8' 92' C 493=' &' $ ###' 7 32' ?98:';' D 2=943<;C53'9283<B;5'C38?332' 8:37,

* <3' 8 ' 32892D>' &< 7' ;5;7;2D;' B,' I M#M

:3 ;4B9D3 ?;= 8;>32 ;24 92 D 2=3J@32D3 8:3 8< = ?3<3 = 2 = <3;4 @8 B3< 8:3 ?: 53 532H8: &< ;4 C38?332 <@22; ;24 =8 <H; : 3 H<3;83=8 49&&9D@586 ?;= & @24 92 3J@9 92H 8:37 & < 8:3 7 ;9.D:K %;59D9; ;5?;6= ; < D @28<6 : ;4 C332 ;57 =8 =8<9 34 & 7@53= ;24 D;<8= 8 =@ 56 5;>3, 8 ?;= ;C= 5@8356 97 ==9C53 8 < D@<3 ; =@&&9D328 8<;92 & <8:3 8<;2= <8 &; 9<4A= & 4 ;24 C;HH;H3, 3 ?;= 256 ;C53 8 H;8:3< 32 @H: C3;=8= 8 D;<<6 :9= 59H:83< 97 3497328; &< 7 =8;H3 8 =8;H34 C6 8:3 &&3< &3G <C98;28 <;83= &: 9<3, 3 B;9256 : 34 8 D 7 5383 :9= 3J@9 7328 ?:32 :3 =: @54 :;B3 <3;D:34 8:3 5;92=, ;<8 &:9= 49&&9D@5893= ?;= D;@=34 C6 5;D> &7 236K 8:3 % B3<27328 ;8 : 73 :;4 2 8 <3;59R34 8:;8 256 :;<4 D;=: ? @54 D9<D@5;83 92 ;92K 4 55;<)= 92 ;C@24;2D3 ?3<3 8 D 73 @8 92 8:3 3 * &<9H;83 999 ;&3?? 33>=K 73;2?:953 98 ?;= 3G 3D834 8:;8 8:3 ;29;<4= ? @54 H5;456 ;DD3 8 <989=:% B3<27328 C955=, @8 = 598853 ?;= ; 3< 59>34 92 8:3 3292=@5;8:;8 256 d ###< N ### 92 4 55;<= D @54 C3 <;9=34 ;8 <@22; K ?98: @8 &@<8:3< <3= @<D3= 98 ? @54 :;B3 C332 97 ==9C53 8 C3H92 8 @=:8:3 ;<76 & <?;<4, :3 &3;8 ?;= 256 ;DD 7 59=:34 C6 C << <B92H "$ ### 4 55;<= &< 7 8:3 %;CD9;2 -@28;, < 8:9= ;D8 D;<3&@556 9H2 <34 C6 ; 93< 8:36 43=3<B3 ; < 3< <3D H2989 2K 98 =: ?= ;7 @D: C3883< = 9<98 8:;2 7 9H:8 :;B3 C332 3G 3D834 ;&83<8:39<& 59=:C3:;B9 @< ;C @8 8:3 49=37 C;<>;89 2, : <856 ;&83< ;9<4 =@DD33434 92 H38892H L# ### &< 7 <, <3< 8:3 23?7929=83< 8 ;4<94 ?: D:;2D34 8 ;<<9B3 ;8 <@22; ?98: L # ###92 D;=: 43=89234 &<8:3 ;29=: H B3<27328, 92;556 2 B37C3< "8:3 3G 3D834 =:9 D;73 92 ?8: 8:3 ## ### 4 55;<= 8:;8 :;4 C332 <9H92;556 92832434 8 C3 49B9434 C38?332 <@22; ;24 9=C 2 ;24 ;9<4 :;4 ;= 7@D: 7 236 ;=:3 D @54 ==9C56 <3J@9<3 3B32 ?:32 7@53= ;24 4<;@H:8. G32 :;4 <9=32 8 &;7923 <9D3= 92 %;59D9; &:3 =8955 & @24 98 :;<4 8 7 B3 98 ?;= C3D;@=3 8:9= < ;24 43= 5;83 < B92D3 ?;= <3;556 4<;9234 4<6 &<3= @<D3=`,

* ;9<4 8 ;=853<3;H: D8, L M##M,

* ;93<>23?8:3 D <<3= 2432D3 &;9<4 C6 :3;<8, 8 9= 8:3<3& <3 7 =8 @2&;9< 92 :97 8 =@ <3= 8:3 5 ;2 7;43 C6 8:3 %;59D9;2 -@28; ?:9D: ; 3;<= 92 9< ;B94A= 53883<= & D8, $$ $" ;24 B, I ;= ;5= 8:3 <3D39 8 &8:3 ## ### 4 55;<= =328 C6 8:3 <989=:% B3<27328 92 8:3 9 <3 ?:9D: 9= ;D>2 ?V 534H34 92 8:3 53883< & B, " , 3 97 593= 8:;8 8:3 256 =@7= <3D39B34 ?3<3 dL# ### &< 7 <, <3<3 ;24 dM ### &< 7 9< - :2 <3, :3 =97 53 &;D8 '= 8:;8 2 H 4 ;D8 4 23 C6 ; ;29=: -@28; < ; <6 7929=83< 9= 3B3< ;D>2 ?534H34 C6 ; 93<,

' &83< <3;492H 9< :;<53= /;@H:;2A= 49;<6 =: ?92H : ?: :;<4 :3 ;24

8?3286.&96 ' C ; 88 ; 59 2=' &'92&; 28<6 ' 8? ' D ; B ; 5<6' <3H9 7 328=' ; 24' =3B32' C ; 883<93=' 7 ; <D : 34' & <' ; 92,' ? ' C<9H ; 43=' @243<' 3<3=& <4' 8 >' 8 : 3' H 4' < ; 4' C6' 9 7 C<;' ; 24' 35 <9D ' 8 ' 5 7 394 ; K 8 : <33' @243<' <;=3<' ?328' C6' C<; 283=' ; 24' %@ ; 94 ; ' 8 ; >92H' ?98 : ' 8 : 3 7 ' 8 : 3' =92H53' C ; 883<6' ? : 9D : ' <3' : ; 4' <38 ; 9234' ?98 : ' : 9=' 7 ; 92' C 46 ' 92' <43<' 8 ' 8<6' ? : 38 : 3<' 8 : 3' < ; 4=' &' ; =83<2' <8@H ; 5' ?3<3' ;=' C ; 4' ;=' : 9=' ; 4B9=3<=' : ; 4' <3 <834,' ? ' C<9H ; 43=' @243<' %323<; 5' ; H38 ' =8 ; <8V 92H' &< 7 ' 5B ; = ' 2 8' &< 7 ' 9=C 2 ' =3 ; <; 834' 8 : 3 7 =35B3=' &< 7 ' 3' ; 24' 7 ; <D : 34' 2' 9@4 ; 4' 49.9H ' C6' 5D ; 28 ; <; ' ; 24' <9; ' : 3' H323<; 5' : 9 7 =35&' & 55 ? 34' 92' 8 : 3' 8<; D>' &' <; =3<' ? : 7 ' : 3' B3<8 >' ; 24' ; ==34' 92' 8 : 3' 239H : C @< : 4' &' 39=8355 ' <; 2D ' *

: 3' 7 ; <D : ' ? ; =' ; ' 7 =8' @2 53 ; = ; 28' 23 ' & <' 8 : 3' ; @8@ 7 2' <; 92=' =@< <9=34' 8 : 3' 8< =' 92' 8 : 39<' ; == ; H3' 8 : < @H : ' 8 : 3' 7 @28 ; 92=,'

<3 B3<' = 7 3' &' 8 : 3' <3H9 7 328=' ?3<3' C ; 456' &34 ' ;=' ; 8 ; < ' 8 : 3' <8@H@3=3' D 28<; D8 <' ? : ' : ; 4' @243<8 ; >32' 8 ' =@ 56' 8 : 3 7 ' ?98 : ' 7 3 ; 8 ' ?328' C ; 2><; 8' ; 8' 8 : 9=' 7 7328' ; 24' &; 9534' 8 ' &995&95' : 9=' C59H ; 89 2=,' 3B3<8 : 353==' 8 : 3' ; 4B ; 2D3' ? ;=' D ; <<934' @8' ?98 : ' D 7 V 5383' =@DD3==K 8 : 3' 732' ?3<3' 92' H 4' : 3 ; <8 ' 7 ; <D : 34' ?355 ' ; 24' H323<; 556' 7 ; 928 ; 9234' 8 : 39< ' 49=D9 5923,' 2' B3 7 C3<' I ' 8 : 3' 53 ; 492H

' 8' 7 ; 6' 3<59 ; =' C3' ? <8 : ' ? : 953' 8 ' H9B3' 8 : 3' D 7 =989 2' ; 24' C<9H ; 492H' &' <3=' ; <76' 2' 8 : 3' 7 ; <D : ' &< 7 ' 9=C 2' ; 24' 5B ; =' 8 ' ; 5 ; 7 ; 2D ; ,

: 3<3' 7 ; <D : 34' C6' 9 7 C<;' ; 24' 5 7 394 ; ' 3<3=& <4' W5j"8 : $jL I <4 $j $24]' ; 24' ; 23' W5j I M8 : ' 5j "8 : ' $j" 8 :],' 6' C<; 283=' ; 24' %@ ; <4 ; ' ?328' 32892D>' W5jL8 : ' 5j$M8 : ' 5jL$24 ' ; 24' & @<' D 7 ; 293=' jN#8 :]' ; 24' 955' W5j 8 : ' 5j I $24 ' 5j" =8]K 8599=' D 5@72' 8 >' ?98 : ' 98' 23' C ; 883<6K 98' ? ;=' & 55 ?34' C6' 8? ' 9= 5 ; 834' <3H9 7 328=' 8 : 3' 5jN8 : ' ; 24' 5j #8 : ,' : 3' D < =' ? : 9D : ' 7 ; <D : 34' &< 7 ' 5B ; =' C6' 5D ; 28 ; <; ' @243<' ; H38 ' ? ; =' D 7 =34' &' 8 : 3' C<9H ; 43=' &' 5832' 0 =8' ; 24' $24' 9H : 8' ; 88 ; 59 2=' &' 8 : 3' 0 ,' %,' ,P' ; 24' 2=8<@8 : 3<' $#8 : ' 5j $24 ' 'j" 8 : ,' : 3' I <4' 3H9 7 328' X 9234' 8 : 3' ; <76' &< 7 ' 5 7 394 ; ' ? : 3<3' 98' ? ;=' 92' H ; <<9= 2 ' ; @4X8 : 3' 5jM$24' D ; 73' @ ' 5 ; 83' &< 7 ' 9=C 2,' 8' ? ; =' <9H92 ; 556' 92832434' 8 : ; 8' 32892D>' ; 24' 3<3=& <4' = : @54' & <7 ' ; ' 49B9=9 2' @243<' <; =3<' 2=8<@8 : 3<' ; 24' 5832' ; ' 49B9=9 2' @243<' ; H38,' &' 8 : 3' 8< =' ? : 9D : ' <3 ; D : 34' ; 5 ; 7 ; 2D ; ' 8 : 3' I <4' ; 24' NjN#8 : ' ?3<3' =328' C ; D>' 8 ' <8@H ; 5,

: 3' <9H92 ; 5' C<9H ; 492H' &' ; 9<4=' & <D3' ? ; =K ; B ; 5<6' <9H ; 43' 0 <4' ; H38P' 8 : ' #8 : ' ; 24' 8 : ' @==; <=,' =8' <9H ; 43' 0 / ; <43P' =8' ; 24' I <4' C ; 88=,' &' 8 : 3' =8' 8' %@ ; <4=,' $24' <9H ; 43' 0 ; @292H : ; 7P' I j5=8 ' 5j$N8 : ' $jM =8,' I <4' <9H ; 43' 0 D9 9P' =8 ' $j "8 : ' %8 : ,' 9H : 8' <9H ; 43' 0 ,' <; ?&@<4P' $jL I <4 ' Xj" 8 : ' $j" 8 : ' 0438 ; D : 7328=P,' : 3' $j L8 : ' ; 24' jI <4' ?3<3' ; 5= ' <3=328 ' 3<: ; =' ; =' ; ' C<9H ; 43' @243<' ; D>32R93,

55' 8 : 3=3' ; <<; 2H3 7 328=' ?3<3' 83 7 <; <6 ' ; 24' ; 8' ; : ; H@2 ' ; =' ?3' = : ; 55' =33 ' 8 : 3' ? : 53' ; <76' ? ; =' <3D ; =8,' ' D 7 5383' 8 ; C53' &' <3=' ; <76 ' ?98 : ' 98=' &92 ; 5' <H ; 29R ; 89 2 ' & <D3 ' ; 24' 5 ==3= ' ?955' C3' & @24' 92' 8 : 3' 3249G,

* <3' 2 ; 73=' 23' <3H9 7 328' 256' ;=' ; 2' 3GD3 89 2,

#$ ' ' ' W B,' $I

<3H97328=' C3H;2' 8 ' &953' 928 ' ;5;7;2D;' ?:98:3<' 8:3' 77;243<'
92.D:93&':;4';5<3;46' <3D3434'8:377,' :3'D 2D328<;89 2'? @54':;B3'
C332';' 598853' 7 <3';94' C@8'& <';' =8<;2H3' 79=8;>3)' &'%323<;'5
2=8<@8:3<'D 77;2492H';8' 57394;' ?:' 438;9234' = 73' &'8:3'
8< =' &' <';'&3?'4;6='D 28<;<6'8 ' 8:3' <43<=' ?:9D:':;4'C332'=328'
:97,' @8'C6'8:3'8?3286.8:9<4'8:3'8:<33'D 5@72=':;4';55'X 9234';8'
;5;7;24;) ' ?:3<3' <3'2 ?':;4' ###'92&;28<6';24'8:3'= 598;<6'
C;883<6'8:;8':;4' 7;<D:34'?98:' <;=3<=' 49B9=9 2,' :3'H@2=':;4'
738'?98:'= 73'89<3= 73' C=8;D53='C@8':;4'=@<7 @2834'8:37'?98:'
2 'H<3;8'49&&9D@586';24' <3'2 ?'=;?'0;=' ?3':;B3';5<3;46'=: ?2P'
8:;8':3)79H:8':;B3'C< @H:8'8:3'?: 53' &':9=';<8955396'?98:':97'9&'
256':3':;4'C332'H9B32'D <<3D8'92& <7;89 2'=9=8 '8:3'=8;83' &'8:3'
<;4=,

2' B37C3<' - ' 8:32' 8:3' <989=:' D 77;243<.92.D:93&'5;6';8'
;5;7;2D=9' ?98:' =9G' 92&;28<6'C<9H;43=';24' 23' C;883<6,' ;9<4'
5;6';8' =8 <H;' ?98:'& @<'C<9H;43=';24'8:<33'C;883<93='K ;'&3?' &':9='
C;88;59 2=' ?3<3'=8955' 2'8:3'7=@KD:'&< 7'%;59D9;,' 3'?8:' <3A='
D;B;5<6';24'H@2=' ?;=' 23;<8:3' =D@<9;5,' <4' ;H38'?98:' ;9<4A='
3J@=9556'C35;834'D;B;5<6' ?:9D:':;4'53&8' <@22;' 2'8:3'&9&83328:'
?=9='C38?332' @H ';24' =8 <H;,' :3'=98@;89 2'?=9='43 5 <;C53'& <'
98'?;=' D53;<8:;8'8:3';<76'? @54'<3J@9<3'832'4;6=' 7 <3'8 'D 2V
D328<;83';24'H38'928 '&@55'&9H:892H' <43<'=924'98'?;=' C6'2 ' 73;2='
D3<8;92'8:;8'8: =3'832'4;6=' ? @54'C3'H<;2834'8 '98,' @D:'?3<3'8:3'
@2:; 6'<3=@58=' &'8:3'&;5=3'49<3D89 2'H9B32'8 ' 3A=' D 5@72'
;24' &'8:3'32& <D34'435;6' &' ;9<4';8' <@22;' ?92H'8 '8:3'
& 556' &'8:3'%;59D9;2'-@28;,

8'7;6'3;=956'C3'H@3==34'8:;8' <3A=' =8;83' &' 7924';8'8:9='
7 7328'?;=' 7 =8'@232B9;C53,' 3':;4'<3D39B34'7@D:';8'8:3'=;73'
8973';=' 494' ;9<4'8:3'23?=' &'%;7 2;5';24' = 92 =;;' 3'?;='
;?;<3'8:;8'2 '=D<332' &' ;29=:'8< =' 2 ?'5;6'C38?332':97';24'
8:3'3237 6,' 3':;4':3=9<4' &'8:3';<<9B;5' &' 95:;@4A=4<;H 2=';8'
/;55;4 594';24' &' 3&3CB<3A=' D < =';8' ;<<9 2';24':3'3G 3D834'
)3B3<6' 7 7328'8 ':3;<8:;8'8:36'?3<3' 7;<D:92H'& <?;<4';H;92=8'
:97=35&,' 38':3'D @54'2 8' ==9C56';4B;2D3'?98:@8'D;B;5<6'<'
H@2=';24'9&';88;D>34':3'7@=8'&56';8' 2D3'8 ?;<4=' <8@H;5'& <'98'
? @54'C3'7;4'8 ';883 7 8'8 '&9H:8'92'8:3' 5;92='?98:'2 '& <D3';8'
:9=' 49= =989 2'=;B3';' 7;==' &'& 8.= 549396,' &'8:3' <32D:'7 B34'
& <?;<4'&< 7'/;55;4 594'8 'Q;7 <;' 2'8:3' 23'=943' <'8 ' B95;' 2'
8:3' 8:3<' :3',? 944' 923B98;C56'C3'D@8' &&'&< 7' ;9<4';24' 3,
A' ;B3'8?'=8<;6'C;88;59 2='?:9D:':;4'=8;<834'5;=8'&< 7' 9=C 2,

2 8 : 3 8 =8<;HH53 @2;9434 ;H;92=8 8:3 ?: 53 <32D: ;<76 9 ;92,

3G 5;92 <3 ;D89 2 98 9= 23D3==;<6 8 <3737C3< 8:;8 :3 =8;<834 ?98:;=8< 2H <3X@49D3 ;H;92=8 8<@=892H 8:3 <989=:;<76 8 8:3 73<D6 & ;29=:D . 3<;89 2, 3 :;4 C332 <3D39B92H B3<6 H5 76<3 <8= C 8:&< 7 <, 8@;<8 8:383 7 <;<6<3 <3=328;89B3 &8:3 <989=:% B3<2 7328 ;8 <;2X@3R ;24 &< 7 <4 9559;7 32892D58 8:3 7 9598;<6 ;H328 ?: 7 ;5<67 53 :;4 =328 8 ;4<94, 9<3 5;883< ?;= 23 &8:3 &3? <989=: &&9D3<= ?: 059>3 3553=536P & <3=;?&< 7 8:3 &9<=8 ;D;8;=8< :3 ?:323B3< 8:3 <32D:<392& <D3V 7328= =: @54 D< == 8:3 C< <3 B3< 8:3 D:;<;D83< & <3 = D <<3= 2432D3 ?98: 8:3 328<;5 -@28; C3& <3 ;24 4@<92H :9= ;4B;2D3 :;4 D 2= &<34 ?98: 8:3 <3 <8= & 8@;9*8 ;24 32892D> 8 H9B3 :97;B3<6@2&;B @<;C53 943;&8:3 323<H6;24 ;477929=8<;89B3 D; ;D986 & @< ;5593=, 3 :;4 C332 B3G34 8:;8 8:3 -@28;<3&@=34 8 @8 :97 92 49<3D8 D 7 7@29D;89 2 ?98: 8:3 ;29=:H323<;5= 3 D 7 5;9234 8:;8 :3 H 8 &< 7 8:37 8;<46 @2&<3J@328 ;24 92;DD@<;83 23?= &8:3 3237 6= 7 B3 7328=, 3 ?;= 49=H@=834 8:;8 3R 8:3 &&9D3< =328 8 ;94 :97 92 7 B92H 9=8< = 8@<234 @8 8 >2 ?3B32 53== ;C @8 8:3 < ;4= &8:3 ;29=:&< 2893<8:;2 :3 494 :97 =35&, @8 ;C B3 ;55 :3 < &3==34 8:;8 :3 ?;= 83<<9&934 C6 8:3 ; ;8:6 ?:9D:3 & @24 C 8:; 7 2H 8:3 &&9D9;5= ;24 8:3 3 53 &8:3 >92H4 7 & 3 2 ;24 54 ;=8953, 3 :;4 C332 598356 <3D39B34 C6 8:3 ;@8: <9893= C 8: 8 9@4;4 4<9H ;24 ;8 ;5;V 7;2D; C@8 :3 D 7 5;9234 8:;8 :3 H 8 598853 C@8 37 86 D 7 59V 7328= &< 7 8:37,

:3<3 ?;= = 73 8<@8: 92 8:9= ;553H;89 2 8: @H: D3<8;92 &;D8= D;2 C3 J@ 834 ;H;92=8 98 F 3B32 &< 7 <3= B2 D <<3= 2432D3,

* :3<3 9= ;2 @243<8 23 &H5 7 92 7 =8 & 32892D>= B3<6 D; ;C53 53883<= ?:9D: D 28<;=8= =:;< 56 98:8:3 B3<6 8979=89D B93?= 3G <3==34 C6 653 ;24 7 =8 &8:3 8:3< 79598;<6 ;H328=, 2 D8, $:3)&335= 8:3 4;2H3< & <D9C56 & 8:3 ?;28 & ;=92H53 D 7 7;243< & < 8:3 ;29=:;<793=, 2 3 8, I# :3<37 <>= 8:;8 8 :3 ;29=:8< = D 2=943<8:37=35B3= 92B92D9C53 C@8 8:;8 8:3 ;29=:% B3<2 7328 @H:8 2 8 8 C3 435@434 C6 8:3 =;73 929 2, 2 B, 4 2:3 7@=8 2 8 49=H@9=3 8:;8 :3 8:92>= B3<6 @2&;B @<V ;C56 &8:3 ;&&;9<= & ;92 8:3 ;29;<4= :;B3 2 8 8:3 73;2= 8 <3 35 8:3 4;2H3< 8:;8 8:<3;832= 7 =8 &:9= 53883<= ;<3 99; 7 <3 < 53== 8:3 =;73 =8<;92,

* GD3 8 ?98: ;=8;2 =&< 7 ?: 7 = 73 =32=9C53 C@8 <;8:3< B;H@3 ;4B9D3 ?;= < D@<34,

3,H, 92 :9= 53883< & B, '" <3 = 3;>= &8:3 8 ?2 & ;5;7;2D; ;= 4 92H 98= C3=8 & < :97 8:3 D53<H6 ?3<3 3G3<892H 8:37=35B3= ;24 ; D 26328

R ' M' ' M '

3 2' ;24' 54' ;=8953' : ;4 ' ;=' ?3' : ;B3' ; : 3 ;46' : ;4' DD ;=9 2' 8 ' 537 ;<> ' C332' &;<' 53==' 323<H389D' 8 : ;2' 8 : 3<' ;<8=' &' 8 : 3' 3292=@5;' 92' <;9=92H)23 B' 8< =' ;24' D 792H' & <? ;<4' ?98 :' D 28<9C@89 2=' 8 ' 8 : 3' 2 ;89 2 ;5' 3GD : 3J@3<,' : 36' : ;4' 4 23' 2 ' 7 <3' 8 : ;2' &@<29=:' 8 : 3 # ###' 732' &' @3=8;A=' 49= <43<56' T <7 6' &' ;=8953 A' ;' D 2892H328' @883<56' @8' &' < <89 2' ?98 :' 8 : 39<' @5;89 2' ;24' <3= 7*D3=,' <' 494' 8 : 36' =337' 8 ' <3 ;59R3,8 : 3' =D;24 ;5 &' 8 : 39<' ?2' =5 8 :' ;24' < D<4=892 ;89 2,' <3' : ;4' 3G 3D834' 8 ' =33' 3B3<6' 8 ?2' &@55' &' 23?' 53B93=' @243<H 92H' 4<955' C3& <3' 7 ;<D : 92H' 8 ' 8 : 3' C< ' 8 ' 49=D B3<' 92 ;H ;R923=' ;DD@7@5;834' 92' 97 <8;28' 5;D3=' 59>3' 9@4;4' 49A9H ' ;24' ;5;7 ;2D;' 8 ' &924' 8 : 3' 7 9598 ;<6' ;24' D9B95' &&9D9;5=' ? <>92H' C@=956' & <' 8 : 3' ;<7 93=' ;8' 8 : 3' &5A 28,' 2=83 ;4' :3' & @24' ;2' @2 ;DD @28V ;C53' ; ;8 : 6,' B32' ;&83<' 8 : 3' <3 <8=' &' = 92 =;' ;24' %;7 2 ;5' : ;4' D 73' 8 ' : ;24' 8 : 3' 3 53' ;24' 8 : 3' ;@8 : <9893=' ;59>3' =337 34' 8 ' C3' 59B92H' 92' ;' = <8' &' & 5=A' ;<;49=3 ' 49=C3593B92H' 8 : 3' H5 7 6' 23?=' 8 : ;8' ;9 9B34 ' <' ;8' 53;=8' <3&@=92H' 8 ' <3D H29R3' 8 : ;8' 8 : 3' ? ;<' ? ;=' 2 ?' ;8' 8 : 39<' ?2' 4 <=,' X/ <3' &3;<34' 8 : ;8' 8 : 9=' D;73' &< 7 ' ?;28' &' ;8<9 89=7 ' <' &' D @<;H3,

=' ;' 7 ;883<' &' &;D8 ' 8 : 3' 3 53A=' : 3 ;<8=' ?3<3' = @24' 32 @H : ' C@8' 8 : 36' : ;4' =8955' H 8' T' ;6532' 2' 8 : 3' C<;92' A K' 8 : 36' =97 56' &;9534' 8

&' 2@2=' : ;4' < 79=34' :97' d ###,' 2' :9=' H ' :3' : ;=' ;' 83=897 29;5' 8 ' 8 : 3' &9435986' ?98 :' ?599D :' 8 : 3' 3 53' &' <43=955 ;=' < 83D834' ;2' 2H59=:' &&9D3<' &< 7' ;' <;9492H' ;<86) &' <32D :' D;B;5<6,' 593<3' ;<3' = 73' =9795;<2 83=' 92' <989=:' 737 9<=' K 3,H,' * ,' ,A' &' 8 : 3' =8' 3G <3==3=' 7@D :' H<;898@43' & <' 8 : 3' >92423==' &' 8 : 3' 3 53' X &' 3@;<;24;' ?: ' ?: 32' 3A=' 49B9=9 2' ;<<9B34' 92' ;' 4<32D : 34' ;24' &< R32' D 24989 2' < 5534' @8' C;<<35=' &' = 9<98=' 928 ' 8 : 3' =8<338=' ;24' H;B3' 3B3<6' 7;2' ;' H 4' 4<;7' C3& <3' 8 : 3' <3H9 7328=' 7 ;<D : 34' 2,' 73' 8 ?2=' 3,' H,' Q;7 <;' ;24' 5C,' 43' <73=' C3 : ;B34' ?355' 92' =92H' 08 : @H :' ?98 : @8' ;26' : 3' &' =@DD3==P' 8 : 3' <32D : ' ?: 32' 8 : 36' 494' ; 3;<,

' =' 8 ' 8 : 3' D 24@D8' &' 8 : 3' ;29;<4=' ' 8 : 92>' 8 : ;8' 8 : 3' C3=8' D 7 7328;<6' 2' 98' 9=' 8 : ;8' &' 398 :' ;6' 09,' M#. P ')(6: ' ?;=' <9492H' ;55' B3<' ;=8953' ;24' 3 2' 92' 8 : 3=3' @2 : ; 6' ?33>=,' T' : @=' 83<7 92 ;834' ;' X @<236' &' ;C @8' "## 7953=' 92' ? : 9D :' ;' D 2=943<;C53' <89 2' &' 8 : 3' D @28<6' : ;4' C332' 8<;B3<=34 ' @243<' D9<D@7V =8;2D3=' ?: 9D :' 32 ;C534' 73' 8 ' ;=D3<8;92' 8 : 3' =92D3<3' &33592H' &' 8 : 3' 3 53,' 8' 9=' C@8' X@=89D3' 8 ' =;6' 8 : ;8' ' 738' ?98 :' C@8' 23' =3289 7328' ;=' 8 ' 8 : 3' ? ;<K 8 : ;8' ' ?;=' 3B3<6?: 3<3' 8<3;834' ?98 :' >92423==,' ' 73289 2' 8 : 9=' ;=' ;' D<3498;C53' D9<D@7=8;2D3' 8 ' 8 : 3' 92 : ;C98;28=' &' 8 : 3' 3292=@5;' ;24' 92' D 28<;49D89 2' 8 ' 8 : 3' =8;837328=' &832' <3D <434 ' @2X@=856' 92' 76' 929 2' ;=' 8 ' 8 : 3' ?;28' &' &;98 :' =@ 92323==' ;24' 3<&946' &' 8 : 3' ;29=:' 3 53,' ' ' ' ' :39<' D 24@D8' ?;=' 8 :< @H :' @8' 49=892H@9=:34' C6' H 4' &;98 :' 9&' 98' ?;=' ;8' 8 : 3' =;73' 8973' <3243<34' ; ;<32856' 3J@9B D;5' &< 7' D : ;<;D83<9=89D' 23H H32D3' ?;28' &' 323<H6' ;24' 8 : 3' 43&9D932D6' &' 8 : ;8' 7 <;5' ?3<' 8 : ;8' D;2' ;5 23' C3' 43<9B34' &< 7' &<33' 92=898@89 2=' ;24' ;2' 3259H : 83234' ;<9=8 D<;D6,A

8 : ; 8 8 : 3 ?]9 53 D @28<6.=943 ? ; = &9955 &3 28 : @=9; = 7 8 : ; 8 : 3 7 9H : 8 5 > & < <3 ; 46 : 35 & < 7 3B3<6 &&9D9; 5 8 : ; 8 ? : 32 2D3 : 3 : ; 4 D< ==34 8 : 3 &< 2893< 8<; 2= <8 ; 24 & 4 ? @54 C3 <3 ; 4956 < B9434 & < : 9 7 , 2=83; 4 : 3 & @24 2 8 : 92H C@8 ; ; 8 : 6 ; 24 49=; =839.=, T ; 4 8 : 3 <3 ; 5 =8<32H8 : ; 24 D 7 =989 2 &3 8 : 3 ; 29=: ; < 7 93= C332 >2 B2 ; 24 8 : 3 43&32D353== =8 ; 83 &3 8 : 3 D @28<6 D 2D39B3 8 : ; 8 ; 49R 2 8 <@22 ; ? @54 : ; B3 C332 D: =32 & < 8 : 3 49=37 V C ; <> ; 89 2 &3 8 : 3 8< = &< 7 2H5; 24K ; 24 3B9553 < <4 B ; 2 8 ; 5; 7 ; 2D ; ? @54 : ; B3 C332 =353D834 ; = 8 : 3 < 3< 5; D3 & < 8 : 3 ; ==3 7 C592H &3 8 : 9= ; < 7 6 ,A : @= : 3 \9/ 83 8 ; =853<3; H : K 8 <3<3K 92 <3= 2=3 8 D 2=8; 28 92B98; 89 2= 8 =8<9>3 ; C5 ? &3 = 7 3 = 595 92 C3 : ; 5& &3 ; 92 : 3 <3 5934 92 7 <3 B9H < @= 83< 7 = .T ; 4<94 9= 8 : <3; 83234 8 : 3 <32D : ; B3 43=8< 634 23 ; < 7 6 0 5; >3A=P : ; B3 ; ==34 8 : 3 C< ; 24 ; <3 ; 4B ; 2D92H 92 =@ 3<9 < 2@ 7 C3<= ; H ; 92=8 ; 2 8 : 3< 0 ; =8; 2 =AP ? : 9D : &< 7 98= D 7 =989 2 9) 7 9=3= 2 <3=9=8; 2D3 C@8 7 @=8 <389<3 < C3 B3< ? : 35 7 34, 8 : 3< ; < 7 34 & <D3 3G9=8= 92 8 : 9= D @28<6K 3<D39B3 2 328 : @=9; = 7 < 4383< 7 9234 = 9<98 ; 7 2H 8 : 3 3 53, : 9= 9= ; =8; 83 &3 ; &&; 9<= J@983 49&&3<328 &< 7 8 : ; 8 D 2D39B34 C6 8 : 3 <989= : % B3<2 7 328 . ? : 32 8 : 36 4383< 7 9234 8 =324 8< = 8 8 : 3 ; ==9=8; 2D3 &3 ; 92, 8 ? ; = 2 8 3G 3D834 8 : ; 8 8 : 3=3 ? 3<3 8 D 3 ; 5 23 ? 98 : 8 : 3 ? : 53 & <D3 &3 <; 2D3K ; = ; @G959; <93= 8 : 36 ? 3<3 8 ; 94 ; 3 53 ? : ? 3<3 C3593B34 8 C3 328 : @=9; =89D 4383< 7 9234 ; 24 <3 ; <34 & <3=9=8; 2D3, 8 C3D 7 3= 8 : 3<3& <3 ; J@3=89 2 ? : 38 : 3<* 8 : 3 <989= : ; < 7 6 = : @54 <3 7 ; 92 8 C3 ; 88; D>34 92 98= 8@<2 <= : @54 <389<3 &< 7 ; D @28<6 ? : 3<3 8 : 3 D 283=8 &< 7 ? : ; 83B3< D9<D@ 7 =8; 2D3= 9= C3D 7 3 @2V 3J@ ; 5,A

55 8 : ; 8 <3 ? < 83 ? ; = 8<@ 3K 638 H9A; 2892H 8 : 3 ; DD@<; D6 &3 3B3<6 <3 7 9=3 : 9= D 2D5@=9 2 8 : ; 8 : 3 @H : 8 8 <389<3 8 <8@H ; 5 ? ; = 2 8 23D3==; <956 D <<3D8, : 3 <989= : % B3<2 7 328 : ; 4 @2V 4 @C83456 B3<.3=89 7 ; 834 8 : 3 ? 3< ; 24 <3= <&<D3= &3 ; 92K 8 : 3 @ <3 7 3 -@28; : ; 4 =: ? 2 2 D; ; D986 & < <H ; 29R; 89 2 < D 7 V 7 ; 24 $ 7 =8 &3 8 : 3 ; 29=: H323<3-= : ; 4 D 7 7 98834 H< == 7 9598; <6 C5@243<=, @8 2 23 &3 8 : 3=3 &; D8= ? 3<3 32 @H : 8 X@=89&6 <3 92 ? ; = : 92H : 9= : ; 24= &3 8 : 3 ? : 53 C@=923== ; 24 7 ; <D : 92H @8 &3 ; 92 9B98 : 998 &9<92H ; = : 8, 3 : ; 4 2 8 C332 =328 8 : 35 8 : 3 ; 8<9 8= 256 9&3 8 : 36 ? 3<3 ? 3<&@5 ; 24 B9D8 <9 @= 8 43=3<8 8 : 37 9&3 8 : 36 , < B34 ? 3; > ; 24 @25@D>6, &3 8 : 3=3 : ; 4 C332 8 : 3 <43<=

<3 8 ; =853<3; H : &< 7 ;5; 7 ; 2D; B, $L

<3 8 <3<3 &< 7 ;5; 7 ; 2D; B, $,

<3 ;<3 8 <389<3 2 <8@H;5 =328 3 ;49= ;8D: C94492H :97 8@<2 && 2 8 D< ==.< ;4= ;24 7 B3 C6 32;<;24; 2 9@4;4 4<9H ';24 5739 4;;24 ?< 83 8 ;9<4 8:;8 :3 7@=8 <38@<2 1,8 <9922;<3.37C;<> :9= ;<76 ;24 C<92H 98 <@24 C6 =3;8 9=C ,.

:3 = 9<98 92 ?:9D:<3 ;D834 9= =: ?2 C6 8:3 ?<492H &:9= 53883< 8 3K T ;B3 4383<79234 8 H9B3 8:3 8:92H @ ;24 8 <389<3, 8 ?;= 76 ?9=: 8 ;B3 <@2 H<3;8 <9=>= 8 &@5&95 ?:;8 D 2D39B3 8 C3 8:3 ?9=:3= &8:3 3 53 &2H5;24 ;24 8 H9B3 3B3<6 ;94 8 8:3 ;29=: D;@=3, @8 8:36 :;B3 =: ?2 8:37=35B3= 3J@;5 8 4 = 598853 &<8:37=35B3= 8:;8 98 ? @54 256 C3 =;D<9&9D92H 8:9= ;<76 ?98: @8 4 92H ;26 H 4 8 ;92 *8 =3 98 8 =@D:' 2@7C3<= ;= 7@=8 2 ?C3 C< @H:8 ;H;92=8 @=, X@2D89 2 ?98: ;9<4 9= @8 &8:3 J@3=89 2 ;24 ?98:6 @ 39.:;= < C537;89D;5, ;;;;: 9= 9= ;D<@35 4383<792;89 2 & <73 8 7;>3 73;2 8 <38<3;8K C@8 : 3 6 @ ?9 8:92> 8:3 D9<D@7=8;2D3= =@D:;= 437;24 98 ,A

<3 ?39H:34 4 ?2 C6 8:3 C@<432 &<3= 2=9C95986 ;24 ? 2.934 C6 8:3 D 2=8;28 <3==@<3 &8:3 ;29;<4= ;8 ;4<94 T?:' 3G 3D834 3B3<6 23 8 &56 C@8 8:37=35B3= A 8:9= <3= 5B3 8 <38<3;8 =337 34 <3;= 2;C53 ';24 3B32 923B98;C53, @8 98 ?;= D53;<56 ?< 2HK ?:32 :3 H;B3 8:3 <43< :3 ?;= B3<?< @H:8 C6 9<9A98;89 2 ;24 43= 2432D6, 3 ?;= =328 8 ;94 8:3 ;29;<4= ;24 8955 :3 ?;= =@<3 8:;8 :3 D @54 4 ;C= 5@8356 2 8:92H 92 8:39< C3:;5& 98 ?;= :9= 4@86 2 8 8 ;C;24 2 8:37, :3. <989=:;<76 ?;= 92832434 8 C3 @=34 &<3356 92 8:39< D;@=3 2 8 8 C3 5;94 @ 59>3 8:3 8;5328 92 8:3 2; >92 53=8 ;268:92H 79H:8 :; 32 8 98, 8= 73<3 <3=32D3 ;8 ;5;7;2D;?;= B;5@;C53 ;= ;2 32D @<;H37328 8 8:3 ;29;<4= ;24 ; D:3D> 2 8:3 &<33 7 B37328 &8:3 <32D:, C B3 ;55 98 ?;=2 8 638 < B34 8:;8 8:3 D 2D328<;89 2 ?98: ;9<4 ;24 3 ?;= 97 ==9C53K 924334 8:3 3B328= o&8:35;=8 &3?4;6= ?3<3 <3243<92H 98 7 <3 ;24 7 <3 59>356 8:;8 8:3 X@2D89 2 79H:8 ;&83< ;55 8;>3 5;D3, :3 <32D:D;B;5<6?:9D:::4; 3;<34 ;8 /;55;4 594 ::4 H 23 &&= @8:?;<4 ?98: @8 ;26 ;883 7 8 8 7 B3 92 8:3 49<3D89 2 & ;5;7;2D;, @58 ;24 3&3CB<3 ?3<3 ;5= 7 B92H 92 ;49<3D89 2 ?:9D: ? @54 2 8 C<92H 8:37 ;26?:3<3 23;< 8:3 <989=:;<76, 3 ::4 D< ==34 8:3 %@;4;<<;7; @2:9243<34 ;24 ?;= 2 ?23;< /955;D;=892 256 =3B3286 7953= &<A 7 <3A= :3;4 J@;983<=, 243< 8:3=3 D9<D@7=8;2D3= 98 ?;= 7 =8 97 5989D * <3 8 3 &< 7 ;5;7;2D; B, $M,

M##M]

? ;= 5@D>6 ; =9 & ; 53 2 : ; 4 >3 ; 9 4 & ; <989= : & G D3 : B3<92H 2 8 : 3 &5; 2> & : 9= ; 4B ; 2D92H D 5@7 2= : 3 ? @54 D3<8 ; 9256 : ; B3 8@<234 ; H ; 92=8 98 8 : 3 8< = 8 : ; 8 ?3<3 D B3<92H 8 : 3 <9H : 8 &5; 2> & : 9= ; 4B ; 2D3 2 ; 49)94 3&3CB<3 = D < = ; 24 8 : 3 4<; H 2= & 95 : ; @4, @8 ; = 98 D : ; 2D34 3 ? ; = 3289<356 @2 7 53=834 : 3 7 B34 ; = ? ; = <9H : 8 ?98 : ; 9= 8< = D5 =34 @ ; 24 <3 ; 46 & < ; &9H : 8 2 8 : 3 29H : 8 & 8 : 3 8 : 9<8938 : ; 9= 92&; 28<6 ; D8@ ; 556 =53 8 92 =J@ ; <3 ?98 : @8 9592H ; < 7 = 4@<92H 8 : 3 32=@92H 8 : 9<86.=9G : @< = 8 : 36 7 ; <D : 34 & <86.=3B32 7953= C3& <3 8 : 36 ?3<3 ; 55 ?34 8 32D; 7 ; 8 32 ; <; 24 ; , : 3<3 8 : 36 ?3<3 <; D89D ; 556 92 = ; &386 =5; D>3292H 8 : 3 ; D3 & < 8 : 3 3G : ; @=834 92&; 28<6 ; 24 & < 8 : 3 B3<V 4<9B32 G32 &8 : 3 D 2B 6 3 4<3?92 8 5C ; 43 223= ? : 3<3 : 3 ? ; = 256 &9&8332 7953= &< 7 ; 5; 7 ; 2D; , 3<3 : 3 <3D39B34 <43<= 2 8 8 @= : & < 9@4 ; 4 4<9H C@8 8 8@<2 2 <8 : ? ; 9 4 ; 24 X 92 8 : 3 7 ; 92 C 46 &8 : 3 ; <7 6 ? : 9D : ? ; = 8955 ; = 98 8@<234 @8 92 98= 54 =989 2=, : @= 2 3D37C3< I <3 D @54 ; 8 5; =8 49= =3 & : 9= 5 2H.5 =8 D ; B ; 5<6 ; 24 H@2= ; 24 ==3==34 ; 2 ; <7 6 & $# ### 732 D 7 5383 92 ; 55 ; <7 =, : 9= B3<6 7 @D : D : ; 2H34 8 : 3 ; = 3D8 & ; && ; 9<= & < : 97 ; 24 <37 B34 23 & : 9= 7 ; 92 X@=89&9D ; 89 2= & < 8 : 3 < X3D834 <38<3 ; 8 2 <8@H ; 5, 3 ; 5= C< @H : 8 92& <7 ; 89 2 ; = 8 8 : 3 7 B37328= &8 : 3 <32D : ? : 9D : ? ; = &8 : 3 : 9H : 3=8 97 <8; 2D3, 3 <3 <834 8 : ; 8 8 : 39< D 5@7 2= ?3<3 ; 55 8<32492H = @8 : ? ; <4 2 23 &8 : 37 8 8 : 3 ?3=8 & 3H B9; , 3 : ; 4 ; 5= : 3 ; <4 &8 : 3 92&; 28<6 &8 : 3 L8 : < = ; 24 D @54 <3 <8 8 : ; 8 98 : ; 4 7 ; <D : 34 C6 / ; 55 ; 4 594 ; 24 57 34 2 3H B9; 3B9432856 B98 : 8 : 3 9283289 2 &4<9B92H 3<349 ; = =8<37 ; 4@<; 2 8< = @8 &8 : 3 5; =8.2 ; 7 34 D986 ; 24 & 3292H 8 : 3 %@ ; 4 ; <; 7 ; ; == , : 3<3 B; = 2 =9H2 B : ; 83B3< & ; 26 7 B37328 &8 : 3

* : 3<3 9= ; H 4 C@8 = : <8 ; DD @28 &8 : 9= & <D34 7 ; <D : 92 C9883<D 54 8 C3 & @24 92 8 : 3 737 9< & T , , &8 : 3 =8 23 & 3A= & @< 92&; 28<6 <3H9 7328=, = 3; >= & ; D@<9 @= &; D8 8 : ; 8 : ; B3 2 ? : 3<3 35=3 =332 73289 234 B9R, 8 : ; 8 ; 8 3&9; <; 24 ; 8 : 3 ; <89553<6 : <=3= ?3<3 = 4 23 @ 8 : ; 8 3 C@<934 =9G H@2= ; 24 8@<234 8 : 39< 83; 7 = 8 : 35 8 : 3 8 : 3< C; 883<93=, ; <32856 8 : 36 ?3<3 4@H @ ; &3? 4 ; 6= ; &83< C6 8< = =328 @8 &< 7 ; 5; 7 ; 2D; ; = 8 : 3 8; 53 & C; 883<93= 9= D 7 5383 ? : 32 <3 <3=@734 : 9= 7 ; <D : ,

M 8 : 92> 8 : ; 8 ; 93< 09, $M .MP = 73? : ; 8 3G ; HH3<; 83= 8 : 3 4 ; 2H3< ? : 9D : 3 <; 2 92 : 9= 7 ; <D : &< 7 / 955; D; =892 8 5C ; 43 < 73=, &D @<=3 9& 3&DCB<3 : ; 4 C332 7 ; <D : 92H 2 ; 5; 7 ; 2D; 8 : 3 =98@; 89 2 ? @54 : ; B3 C332 4 ; 2H3< @=K C@8 ; = ; 7 ; 883< & &; D8 : 3 ? ; = 7 ; <D : 92H 2 8 : 3 %@ ; 4 ; <; 7 ; ? : 9D : 3 : ; 4 =; &356 ; ==34 2 8 : 3 8?3286.39H : 8 : , B3<6 7953 8 : ; 8 8 : 3

$ E /&=

<32D:92 8:9= J@;<83< 8 ?;<4= ;5;7;2D;, :@= 8:3 7 3< <= 5;2 & < ; D 2D328<;89 2 &:9= ?: 53 ;<76 2 ;4<94 C3D;73 D53;< 8 <3= 49=D3<292H 363=,

<989=:7 B34 8 >8:37 &@<8:3< &< 7 3&3:B<3= < @83K :9= 92&;28<6 ?;= 23B3< ?98:92 &9&86 7953= & 3= D 2B 6K ;24 =@ =92H :9= C<9H;43 & D;B;5<6 :;4 H 8 92 8 @D: ?98:8:3 <989=: 98 D @54 :;B3 4 23 2 8:92H =3<9 @= ;H;92=8 ; & <D3 &;55 ;<7= 92 8:3 :;24=\ &; B3<6 D; ;C53 H3239 , :3 2 L #### D;B;5<6 & ?:9D: ; 93< = 3;>= ?3<3 92 <3;5986 256 ##,

L' A ' / ' ' % ' E /&' H

7@<7@<92H' 92' 3B3<6' J@;<83<K' &';55'8:3' &&9D3<=' &'8:3';9A76' &'
<8@H;5' 3'9=';94'8 ';;B3'C332'8:3'256'23'?:';<B34'
&'8:3' 7 7;243<.92.D:93&=' <3=5B3,' :3'D 2=D9@=23==' &'8:3'
D<989D9=7'8:;8':3'?;=@243<H 92H'&<7':9=' ?2'=@C <492;83=' 494'
2 8' 8324'8 '=&832' <3A=' 837 3<'?:9D:'?;=';5<3=546'=@&&9D932856'
8<934'C6'8:3'3G9=892H'=98@;89 2' &';&&;9<=,

&83<';22 @2D92H'8:9=' 4383<792;89 2'98' 79H:8':;B3'C332'3GV
3D834'8:;8' <3'? @54'&;55'C;D>';8' 2D3' 2' -7394;,' @8'
?:953'C3H9222 92H'8 '=324'C;D>':9=' =8 <3=';24':9=' =9D>' :3'494'2 8'
7 B3':9=' &9H:892H.732K'8:3'<3;= 2'0;=':3' B<83'8 ';=853<3;H:'*P
?;=8:;8':3'=8955':' 34'8:;8':3'79H:8'=@DD334'92' 9D>92H'@ ' 3A=
49B9=9 2'9&'8:3' <32D:'494'2 8' <3==':97,' DD <492H56':3'592H3<34'
2'?;9892H'& <'8:;8'H323<;5A=' ; < ;D:';24'7@D:'=@< G.9=34'8:;8'
8:3'32376';?;=7;>92H'2';4B;2D3'92':9=' 49<3D89 2,' 8'?;=' ?92H'
8 '8:3'&;D8'8:;8':3'435;634':9=' 43 ;<8@<3'& <'&9B3'4;6='2'8:3'
D:;2D3'8:;8':9=5 =8'D;B;5<6';24'H@2=7 9H:8';&83<';55'D 73'92K'8:;8'
<3'&92;556'H;9234'8:3' <8@2986' &'=8<9>92H':9=' H<3;8'C5 ?';24'
=;B92H':9=<3 @8;89 2,

97 92H'8:9=' 3<9 4' &'?;9892H';24' &' <3 ;<;89 2'8 ' 43 ;<8'
; 3;5=&< 7'7;26'J@;<83<=D;73' @<92H'92'@ 2' <3'C3HH92H'
:97'8 ';4B;2D3';8';'D =8=';24'7;>3':9=' <3=32D3'&358'C6'8:3'
<32D:,' :3'&9<=8'49= ;8D:3=?:9D:':3'<3D39B34'?3<3'?<98832'C3& <3'
:9=4383<792;89 2'8 '<38<3;8'?;=>2 ?2K';&83<'98'?;=49B@5H34':9=
D <<3= 24328= 256'C3D;73'8:3'7 <3'97 <8@2;83';24'D5;7 <@=,'
97@58;23 @=' <3==@<3'?;=C< @H:8'8 'C3;<'@ 2':97'C6'8:3' <989=:'
;7C;==;4 <';8' <;2X@3R'C6'8:3' @ <373'-@28;'C6'8:3'H323<;5
?:'2?'D 77;2434'8:3'?<3D>=' &'8:3' ;29=:';<76' &'%;59D9;'
;24'C6'8:3'7 9598;<6';@8: <9893=';8' ;4<94,' ;D:'23' &'8:37'
:;4'7;26';24'=3<9@=' D 2=943<;89 2=8 '=38' X3& <3'8:3':=7;==34'
7 7;243<.92.D:93&,'

<3':;4'C332'='D 2=8;2856';==3<892H'8:;8' 5;>3A=' 54'T' <<;6' &'
8:3'59D&&8'K':;4'C332'D 7 538356'49= 3<=34';24'<@9234'8:;8'98' 7@=8'
:;B3'C332'= 73?:;8' &';'=@< <9=3'8 ':97'?:32'8:3' ;<J@9=' &'
;' 7;2;'?< 83'&< 7' 3 2' 2' B37C3<'I#'8 '=;68:;8':3'?;=
2 ?';8'8:3':3;4' &';'D 2=943<;C53'& <D3';24': 34'8'D . 3<;83'92'
8:3' 2D 792H'D;7 ;9H2,' :3'%;59D9;2=':;4)<;55934'92'7@D:'H<3;83<

* :3':3;B6';77@2989 2';24';55'8:3'=9D>'?:'D @54'C3'7 B34'?3<3'=328' &&'
2' 3D,'4$'@243<8:3'3=D <8' &'8:3'NjN##8:,' 33' <3A='2'%323<;5' <43<='K'& <'
8:;84;6';24' <7=C6'99,'NL,
D ,+'.' (&.4+,+(30'6, '' (4(''()-(' 8'Q"

M##M]' A ' ' ' '

97 ==9C53,' :9=' ; ;5592H' 23?=' 433 56' ;&&3D834' =D;5;283' ;24'
@32 ' C@8' 8:36' 8:32' 8@<234' 8 ' @<H92H' <3' 8 ' @2983' ?98:'
;' 7;2;' ;24' 7;<D:' 8 ' 8:3' <3C3&' &' ;4<94,' :3' <989=:'
H323<;5' <3 5934' 8:;8' :3' 494' 2 8' C3C3B3' 8:;8' 8:3' ;<J@9=' :;4
N ###' 732' &98' 8 ' 8;>3' 8:3' &9354' ;5 2H' ?98:' 8:3' <989=:' (';24' 8:;8'
;26' =@D:'=D:373' ? @54' C3' D:973<9D;5,' 9=' ?: 53' C3;<92H' 8 ?;<4='
8:3' 379==;<93=' &' 8:3' -@28;' =3379' 8 ' :;B3' C332' &<9H94' 8 ' 8:3' B3<H3'
&'49=D @<83=6,' ?' 7@D:'8:36'9<<98;834':97' 7;6' C3' H;8:3<34' &< 7'
8:3';DD @28' &' 8:3' 9283<B93?' ?:9D:':3'=328'8 ' <,' /3<3'8? '4;6='
5;83<,' 2' 5;2H@;H3' 8:;8' =337=' B3<6' 92; < <9;83' 92' ;2' &&9D9;5'
49= ;8D: 43=89234' 3<3' 5 2H' 8 ' C3' <92834' ;=' ;' T ;<59;7328;<6'
; 3<A :3?< 83K T' :3'8? 'H323<;5=' =337 34' 8 ' 73'8 'C3'8? '?3;>'
' 54' 732' <' <;8:3<' ? 732' ?98:'?: 7' 98' ?;=' 97 ==9C53'& <' 73'8 '
D 2D3<8';26' 79C8;<6' 3<;89 2='3B32':;4' 'C332'=' 92D59234,' :39<'
D 2&3<32D3=' ?98:' 73' D 2=9=834' 92' J@3=89 2=' ;24' 92' ;==3<89 2=' ?98:'
<3H;<4' 8 ' 8:3' =8<32H8:' &' 49&&3<328' ;29=:' D < =' ; ' &' ?:9D:'
' >23?' 8 ' C3' 3<< 23 @=,' :36'2398:3< >23?'8:;8' 3H B9;' <' 8:3'
7 =93<<;'?3<3'92' 8:3';24=' &'8:3'32376,' '=:;55' C3' C59H34'
8 '6 @'8 '=;B3' 73'&< 7'=@D:'B9=98=' ?:9D:';<3'B3<6' ;92&@5'`A
8'9=' D53;<8:;8'8:3' 79==9 2' &' =D;5;283';24' @32 ';:;4'2 'H<3;8'
=:;<3'92' 4383<79292H' 9<'- :2'8 ';C;24 2':9=' < X3D834'<38<3;8' 2'
<8@H;5'8: @H:'98' 7;6' ==9C56':;B3';:;4'= 73' D@7@5;89B3' 3&&3D8'
?:32'8;>32'92' D 2X97D89 2' ?98:' 8:3<' ; 3;5=' 8:;8' ?3<3' D 792H'
92'8 ';97';8'8:3'=;73' 7 7328,' 8'?;=' J@983' 8:3<?9=3'?98:'8:3'
49= ;8D:3=' ?:9D:';3'<3D39B34'&< 7'8:3';@8: <9893=';8' ;4<94';24'
&< 7'8:3' <989=:';7C;==;4 <';8' <;2X@3RK' 92'8:37'?3' 7;6'&924'
8:3' D:93&'D;@=3=' &':9=' D:;2H34';8898@43,' :3' ;4<94'49= ;8D:'
?;=' ?<98832' C6' <5;';24'8:3' <92D3' &' ;=835&<;2D 8:3'8? '
7 9598;96';3;4=' &'8:3'-@28;' &' 3&32D3' ?:9D:';:;4' C332' D<3;834'
2' 3D37C3<' 92' C3:;5&' &'8:37=35B3=';24'8:39<' D 553;H@3=,' 8'
?;=' =328' &&'3;<56' 2' 3D37C3<'$'C3&<3' ; 53 2':;4' C3H97'8 '
<3==' 92' @ 2'8:3' =@C89<C='& <'98' =3;>=' &'8:3' D986';=' 732;D34'
2 8';=' ;D8@;556';88;D>34' C6'8:3'32376,' 8';7 @2834'8 ';2'; 3;5'
8 ' <3'8 '4 '= 738:92H'8 ':35 ';4<94 2 8' 23D3==;<956'0;=':;='
C332' &832'=8;834P'8 '8:< ?':97=35&'928 '8:3' D986'C@8'9&':3'X@4H34

* :9=';2=?3<9=<3D <434'92'8:3'43= ;9<92H';3;5?:9D:' =D;5;283'?< 83'
8 ' <3'&< 7';R;4;'43' ;4=' 2' B');&83<:;B92H'=8;<834'C;D>'8 'X 92'
8:3'-@28;' :3'<3=8' &' <3A=';<H@7328=D;2'C3'H;8:3<34'&< 7':9=' ?2'
49= ;8D:3=,
D ,+.' ,+,+'6, '' (4('()-('M+-'

N$# A / % E /&?

=: 9954 C3 9 7 <;D89D;C53 98 ? @54 ;8 53;=8 C3 ==9C53 8:;8 8:3 <989=:;<7 6 7 9H:8 <3 7 ;92 2 ;29=:H< @24, 3 :;4 = 2 53;<28 8:;8 8:3 H323<;5 3283<8;9234 B3<6 49&&3<328 B93?=;24 :9= 32@5897 ;83 53883<8:;8 &B3 7 C3< I#=: ?= =9H2= &9J@3 ;8 8:3 =7 ;55 9 7 <3==9 2 8:;8 :9= ;<H@ 7 328= :;4 7 ;43 @ 2 :9= D <<3= 24328 , ?2 3D3 7 C3< I:3 ? 83 &< 7 ;5;B3<; ?:98:3<:3:;4 & 55 ?34 8:3 @ <3 7 3 -@28;92 8:39< &59H:8 8 8<6 :9= 5;=8 3&& <8, 9:9= <3B9 @= ;<H@ 7 328= :3:;4 256 23 7 <3 8 ;44 8:3 &;D8 8:;8 2 3D3 7 C3< .$ 8:3 3 53 &;4<94 ?3<3 =: ?92H 8:;8 = 9<98 &&;2;89D;5 ;8<9 89=7 ?:9D: <3:;4 = @H:8 92 B;92 :98:3<8 ;7 2H 8:3 ;29;<4=, :3 @5;D3 ;= :3:;4 53;<28 ?;= C;<<9D;492H 8:3 =8<338= ;24 8:< ?92H @ C;883<93=K I# ### D989R32= ;24 3;=;28= ?3<3 2 ?@243< ;<7=, 2=9V 43<92H 8:39< = 9<98 :3:;4 2 :3=98;89 2 9 8;>92H @ 2 :97 =35& 8:3 <3= 2=9C95986 &<3 <3=32892H 8:3 < <9386 2 8 8 =;6 8:3 23D3==986 &4 92H = 738:92H 92 8:39< C3:;5&, :3&;83 &;92 43 32434 ;C= 5@8356 & <8:3 7 7328 2= 73 :35 C392H H9B32 C6 8:3 <989=:;<76, <3<3:;4 &9<=8.:;24 3B9432D3 &8:3 328:@=9;=7 ?:9D: ?;= <39H292H 92 ;4<94 2 8:3 &9<=8 4;6 & 3D3 7 C3<:;B92H = >32 8 =3B3<;5 3<= 2= ?: :;4 X@=8 53&& 8:3 D; 98;5 92D5@492H ; <32D: 8 * D 5 235 23 :;<7 56 8 ? : =3 D;<3 :3 328<@=834 :9= 5;=8 53883< 8 8:3 7 7;243<.92.D:93&, @8 = D 2B92D34 ?;= :3 8:;8 2 ;<H@ 7 328 &:9= ? @54 ;&&3D8 9< - :2 <3 8:;8 :3 8 >;7 =8 97 < 3<=83 ;24 3243;B @<34 8 ; 3;5 8 8:3 @C59D 929 2 &8:3 ;<76 B3< 8:3 :3;4 &98=H323<;5, 3 328<@=834 :;<79 6 ?98:;=3D 24 53883<?:9D::3?;= 256 8 4359B3< 9& <3<3&@=34 8 D @283<7;24 :9= <38<3;8 ;&83< <3;492H 8:3 &9<=8, :9= 4 D@7328 ?;= ;<3J@3=8 8:;8 92 D;=3 9< - :2 <37;9234 &9G34 92 :9= <9H92;5 4383<792;89 2:3 ? @54 ;55 ?8:3 C3;<3< &8:3=3 53883<= 8 C3 3G;7 9234 C3& <3 ; @2D95 &);<, <3<3 8: @H:8 8:;8 :;<79 6A= ;DD @28 &?:;8 ?;= H 92H 2 92 ;4<94 ? @54 ; 3;5 8 8:3 <9H;493<= 9&98 :;4 2 3&&3D8 2 8:3 93@832;28.%323<;5 ;24 < C;C56 :3 ?;= 2 8 &;< ?< 2H, @D: ; 5;2 =8<@D> ;8 8:3 < 8= &;55 7 9598;<6 C34932D3K 98 D @54 256 :;B3 DD@<<34 8 ;D9B959;2, &;268:92H D @54 :;B3 7;43 8:3 7;883< ? <=3 98 ?;= 8:;8 8:3 4 D@7328 =: &44 C3 328<@=834 2 8

* 4 2 8 >2 ?8:;8 D;2 92 ;26 ?;6 3G <3== ?98: 53== 9 32D3 8:3 3289<3 49&&3<32D3 & @< 929 2= 2 8:9= =@CX3D8 8:;2 C6 & <?;<492H ?:;8 ;5<3;46 ?<98832 92 9H2 <;2D3 &8:3 4383<792;89 2 W8 <38<3;8] ?:9D: 6 @:;4 ;5<3;46 8;>32 0 <;2X@3R B, M##P,

M##M□ ' / ' ' % $

8 ' ;' <989=:' &&9D3<' C@8' 8 ' ;'& <39H2' ;4B328@<3<' ;' >924' &' 3<= 2' 8 ' ? : 7' 8 : 3)' C<3 ; D :' C38? 332' 8 : 3' D9B95' ; 24' 7 9598 ; <6' <3 <3=328 ; 89B3=' &' %<3 ; 8' <98 ; 92' @H : 8' 23B3<' 8 ' : ; B3' C332' 49B@5H34,' <3 B3<' : ; <7 9556' 08 : @H :' <3<3' ? ; =' 2 8' ; ? ; <3' &' 8 : 9=' &; D8P' D : ; 2D34' 8 ' C3' 3<= 2 ; 556' >2 ?2' 8 ' <3 ' ? : ' : ; 4' ;' B3<6' C ; 4A 929 2' &' : 97 ' 0' : 3' * ' ? ; =' = ; 94' 8 ' : ; B3' C332' 97 59D ; 834' 92' 8 : 3' ; 2' 792H ' 7 ; == ; D<3=' &' "L ' ; 24' 8 ' : ; B3' C332' 32H ; H34' &' 5 ; 83' 92' 4 @C8&995' &@9 ; 2D9 ; 5' = 3D@5 ; 89 2=' 92' 24 2,' ' =324' : 97 ' 8 ' ; 5 ; 7 ; 2D ;' ? 98 : ' =@D :' ; 2' 3<< ; 24' =33 7 34' 59>3' ;' 4359C3< ; 83' 92=@59' 8 ' 8 : 3' 7 7 ; 243<.' 92.D : 93&,' 9A3<3' ? ;=' 922 D328' &' 8 : 9=' 9283289 2 ' C@8' 8 : 3' ? : 53' C@=923==' 3B32' ? 98 : @8' 8 : 9=' ; HH<; B ; 89 2 ' ? ;=' 7 =8' @2?9=3' ; 24' 97 < 3<,

: ; <7 9556' : ; 2434' 92' : 9=' &9<=8' 4 D@7 328' 2' 8 : 3' 3B3292H' &' 3D3 7 C3<' N ' ;' &3?' : @<=' ; &83<' <5 ; A=' 7 3==32H3<' : ; 4' 4359B3<34' 8 : 3' ; 3 ; 5' &< 7 ' ; 4<94,' <3' <3D39B34' : 97 ' 92' 8 : 3' 7 =8' & < 7 ; 5' ? ; 6 ' 49=7 9==34' : 97 ' ; 24' C3H ; 2' 8 ' D 7 ; <3' <3<3A=' 92& < 7 ; 89 2' 298 : ' 8 : ; 8' &' 8 : 3' -@28 ;' &' 3&32D3 ' &' 8 : 3' 37 9==; <93=' &< 7 ' <; 2X@3R ' ; 24' &' : 9=' 8 : 3<' 2H59=:' D <<3= 24328=,' @8892H' ; 55' 8 H38 : 3<' : 3' &358' : 9=' 4383<7 92 ; 89 2' 7 @D :' = : ; >32K' ; 4<94 ' ;=' 98' =33 7 34' ? ;=' 9.3 ; 556' ; C @8' 8 ' 43&324' 98=35&K' 8 : 3' <3 ; <; 89 2=' ? : 9D :' ?3<3' <3 <834' 8 ' : 97 ' C <3' @8' 8 : 3' ? <4=' &' <5 ; ' ; 24' ; =835&<; 2D ,' 9=' (B2' ; 9. 76' ? ;=' =338 : 92H' ?98 :' 49=D 28328' ; 8' 8 : 3' < X3D834' <38<3 ; 8K' 3' C392H' 2 ?' 256' 23' 7 ; 9.D :' ; ? ; 6 ' ; 8' 5C ; ' 43' <7 3=' : 3' D @54' 2 ' 5 2H3<' 53 ; 4' 8 : ; 8' : 3' ? ;=' @2 ; C53' 8 ' ; 4B ; 2D3' C3D ; @=3' : 3' B;=43=898@83' &' D ; B ; 5<6' ; 24' H@2=,' <3 B3<' : 3' ? ;=' 2 <B' = ' &; <' 92& < 734' ;=' 8 ' 8 : 3' =989 2 8 : @H :' 2 8' ;=' 8 ' 8 : 3' 2@7 C3<= &' 8 : 3' <32D : ' 8 : ; 8' : 3' ? ;=' ; ? ; <3' 8 : ; 8' 8 : 3<3' ? ;=' 2 ' B3<6' =3<9 @=' & <D3' 92' &< 28' &' : 97 V =35&' <' &' ; 9<4K' 3B3<68 : 92H' : ; 4' C332' 8 234' 2' 8 ' ; 4<94,' B32' 8 : 3' L8 :' < =' &' ? : 9D :' 3' : ; 4' : 3 ; <4' 4@<92H' : 9=' 7 ; <D : ' ? ;=' 3B9432856' 7 B92H' 2' 3H B9 ; ' ; 24' 8 : 3' %@ ; 4 ; <<; 7 ; ,

2837 5 ; 892H' 8 : 3' =98@ ; 89 2' <3A=' <3= 5@89 2' C< >3' 4 ? 2K' : 3' >23?' ? : ; 8' : 9=' ; <7 6' ? ;=' = ; 692H' ; C @8' : 97 ' ; 8' 8 : 3' <3=328' 7 7 328K' : 3' H@3==34' ? : ; 8' : 9=' H B3<2 7 328' ? @54' = ; 6 ' 9&' 98' = : @54' D : ; 2D3' 8 : ; 8' ; 4<94' 7 ; 43' ;' : 3< 9D' 43&32D3' B:953' : 3' ? ;=' <38<3 ; 892H' @2 @<=@34' 2' 9=C 2' ; 24' 57 394 ; ,' ' 7 ; 2' &' >332' ; 7 C989 2' ; 24' = 5493<56' &3592H ' : 3' D @54' 2 8' C3 ; <' 8 ' 8 : 92>' 8 : ; 8' : 3' 7 9H : 8' C3' = ; D<9&9D92H

' 3' : ; 4' D ; 5534' 2' 9<' - : 2' ;' &3?' 4 ; 6=' C3& <3 ' ? : 953' 2' : 9=' ? ; 6' 8 ' ; 4<94' 8 ' = 59D98' ;' 7 9598 ; <6' =8' &< 7' 8 : 3' -@28 ; ,' <3' ?< 83' 2' B,' $ ' 8 ' <,' 8@ ; <8 ' 8 ' = ; 6' 8 : ; 8' : 3' : ; 4' =332' : 97 ' ; 24' 8 : ; 8' %' : 3' 23B3<' D @54' : 35 ' : ; B92H' ;' 49=59>3' 8 ' 3 53' &' 8 : 9=' 43=D<9 89 2,A

7 B3)*,' <3<3A=@2D 28< 5534'3G <3==9 2=' =: ?34'8: ;8': 3'?;=' 3289<356'
2&88'& <';')49 5 7 ;89D' =8' ;24'D;22 8'C3'8 '=8< 2H56'<3 < C;834,'
8'8:3'=;73'8973'?3' ;<3'& <D34'8 'D 2D343'8:;8' :9=' 7 ;92' 8:3=9='
;=' 3<&3D856'8<@3K 2 8:92H'D @54' :;B3'C332' 7 <3'@2:; 6'8:;2'
8:;8'8:3';94' &';' <989=:';<76' &' II ###' 732' =: @54' :;B3'C332'
< 79=34'8 ' ;92K 8:;8'8:3';<76'=: @54' :;B3' 7 ;<D:34'5;83'92'
9= 5;834'49B9=9 2=' ;24'C6'8:3'?< 2H' < ;4=K 8:;8' ;&83<'98=' B;2' :;4'
<3;D:34' ;5; 7 ;2D;' 2' B3 7 C3<' I'98'=: @54'2 8' :;63'8;>32' 23'
=83 ' 92' ;4B;2D3'@ ' 8 ' 3D3 7 C3<' K' 8:;8'X@=8' ;=' ;4<94' ?;='
;88;D>34'98'=: @54'8; 7 356'C3H92'8 '<38<3;8' 2' <@22;';24' 9=C 2,'
<3' ?;=' 256' ;<856' <3= 2=9C53' & <';55'8:9=K C@8'98' 9=' D3<8;92'
8:;8'8:3'?: 53' =3<93=' &' 7 B3 7 328=' :;4'92' 8<@8:' C332' D;5D@5;834'
8 ' 4 ' 8:3' @8 7 =8' ==9C53' 7 9=D:93&'8 ' 8:3'D;@=3' &' ;92';24' &'
2H5;24,' &' <3':;4'4934' <' C332' =@ 3<=3434' 2' 3D3 7 C3<' L '
M#M ' :3' ? @54' :;B3' C332' ?<98832' 4 ?2' ;=' ?3552 9H:' 8:3' ? <=8'
&;95@<3'92' ;55'8:3'5 2H'59=8' &'92D 7 3832 8' <989=:'D 7 7 ;243<=' =92D3'
8:3'D 7 7 32D3 7 328' &'8:3' 3B 5@89 2;<6' ;<,

8'9=' 8:3<3& <3' ?98:' ;55'8:3'H<3;83<' =;89=&;D89 2'8:;8'?3' 2 ?'
;==' 2'8 '8:3'=3D 24' ;<8' &'8:3'D;7 ;9H2' &'8:3' <989=:';<76'92'
;92 ' ?:3<392' <3'=: ?34':97=35&' ;=' <3= @<D3&@5' <; 94' ;24'
3283< <9=92H'";=' :3';4' :98:3<8 ' ; 3;<34' =5 ?' ;24' :3=98;892H,'
;B92H' 2D3'H 8'<94' &'8:3' B3<D;@89 2' ?:9D:' :;4' :98:3<8 '
H B3<234' :9=' 7 B3 7 328=' ;24' :;B92H' 7 ;43'@ ' :9=' 7924'8:;8'98'
);=' <9H:8'8 '<@2'<9=>=' :3'=: ?34'8:;8'8:3' :9H:'<3 @8;89 2'?:9D:'
:3'32X 634'92'8:3' <989=:';<76'?;=' ?355'43=3<B34,

<3A=' &9<=8'92832 89 2';=' 9=': ?2'C6':9=' <43<=' 8 ' ;9<4';24'
:9=' 53883<=' 8 ' ;=853<3;H:' ?;=' 73<356'8 '49=8@<C'8:3' <32D:' D 7V
7@29D;89 2=' C6';'=@4432'<;94' 2' /;55;4 594 ' <' 3B32' 2' @<H =,'
&' ;4<94'?;=' <3;556': 5492H' @8'8:3' 7 3< <'? @54'2 8'C3' ;C53'
8 '=324';26'5;<H3'438;D:7328';H;92=8':97'@253==' :3'7;43'@ ' :9='
7924'8 ' <;9=3'8:3'=93H3' &'8:3'D; 98;5,' 8'?;=' < C;C53'8:;8'
2; ;<83'? @54'D 2=943<'8:3'43=8<@D89 2' &';2' 2H59=:';<76' &'
3B32'7 <3'97 <8;2D3'8:;2'8:3' < =3D@89 2' &'8:3'=93H3';24'8:;8'
:3' ? @54'D 7 3'<@=:92H'2 <8:?;<4' ?98:';55' :9=' ;226,' 2'8:;8'
D;=3' ;=' <3'.?<83'8 ' ;9<4'I?3'=:;55' :;B3' ;'<@2'& <'98K C@8'
;4<94' ? @54'C3'=;B34,' 2'=: <8' ; 53 2' ?;=' 8 ' C3'8<3;834'
59>3'8:3'C@55'92'8:3' ;<32;'?: '9=' 5@<34' ;?;6'&< 7';'&;5532';4B3<=;<6'
C6' :;B92H' ;'<34'D5 ;>'4;2H534'C3& <3' :9=' 363=;' @ =92H'8:;8'
8:3'7;92'& <D3' &'8:3' <32D:'?3<3'8@<234'@ 2' :97' <3'?;='
' <3<3'8' <3'&< 7' 3<94;' 3D,' L,

$N A / % E /&;F

3<&3D856 ?355 ;?;<3 8:;8 :9=5923 &<38<3;8 2 <8@H;5 ? @54 C3 D@8 &< 8< =7;<D:92H &< 7 8:3 239H:C @<: 4 &;4<94 B9;8:3 %@;4;9<;7;;==7 9H:8 3;=956 =39R3 ;5;7;2D;; @8 98 9=23 &8:3 <9B953H3= &8:3 ==3==<&=3;. ?3<8:;8:3D;2 D:;2H3 :9=C;=3 ?:323B3<:3D: =3=;24 <3 ?83 8 ;=853. <3;H: 8 <3J@3=8 8:;8 8<;2= <8= 79H:8 C3 7;==34 ;8 <@22;& <8:3A<3D3 89 2 &:9=;<76, &&<D34 8 &;55 C;D> 2 8:;8 5;D3:3 92832434 8 =;95 <@24 8 9=C 2 <8 ;49R ;= D9<D@7V =8;2D3= 79H:8 49D8;83,

2 8:3 @259>356 3B328 &2;;<83A= 3<=9=892H 92 8:3 =93H3 &;4<94 ;24 =32492H 256 =7;55 438;D:7328= ;H;92=8 8:3 <989=: ;<76 <3 8: @H:8 8:;8 :3 ? @54 C3 =8< 2H 32 @H: 8 7;>3 7;883<= B3<6 @2 53;=;28& <8:3 3237 6 92 54 ;=8953, &:3 C3;8 8:3 &<D3= 97 7349;8356 =34 8 :97 ;24 =39R34 /;55;4 594 ;24 @<H =8:3 7 3< <? @54 C3 D 7 35534 8 D 73 2 <8: ?:38:3< :3 ?9=:34 98 <2 ,

55 8:3=3 5;2= ?3<3 3<&3D856 <3;= 2;C53 ;24 ?355 D 2D3<834 D 2=943<92H 8:3 92& <7;89 2 8:;8 ?;= ;8 <3A= 49= =989 2 2 3D3 7 C3< N, @8 8:;8 92& <7;89 2 ?;= C 34 2 8? 8 &;5=3 <3 7 9=3=K 8:3 23 ?;= 8:;8 ;4<94 ?;= 59>356 8 :54 @8 & <= 7 3 598853 89 7 3 <3 23B3< =@ =34 8:;8 98 D @54 C3 & <B3<6 5 2H & <:3<3 7 ;9234 &9G34 92 :9= 49=8<@=8 &;29=: D9B9D B9<8@3= K 8:3 =3D 24 ?;= 8:;8 8:3 <32D:;<<;6 92 8:3 2 <8: &;92 494 2 8 ;7 @28 8 7 <3 8:;2 M# ### <## ### 732 ;2 3=897;83 ?:9D: :;4 C332 <3 3;834 8 :97 C6 3B3<6 ;29;<4 ?98: ?: 7 :3 :;4 D 7 7@29D;83DX ;24 ?:9D: :;4 C332 D 2&9<734 2 8 256 C6 <3<3 C@8 C6 8@;<8 ;24 8:3< 2H59=: D <3= 24328= 92 ?: 7 :3 :;4 = 73 D 2&9432D3, &:3 :;4 >2 ?2 8:;8 8:3 <32D: :;4 3283<34 ;4<94 2 3D3 7 C3< L ;24 8:;8 8:36 2@7 C3<34 7 <3 8:;2 $ # ###C;6 238= ;24 =;C<3= :9= 5;2= ?@54 :;B3 C332 < & 97 456 7 49&934 ,

* <3A= 5;2= C38?332 3D, N ;24 #8:3 4;6 2 ?:9D: :3 H 8 23?= &8:3 &;55 &;4<94 7@=8 C3 H;8:3<34 &< 7 :9= <;8:3< 73;H<3 49= ;8D:3= 8 ;=853<3;H: &7942 9H:8 3D, N ;24 &3D, M $ &< 7 :9= 7@D: 7 <3 3G 59D98 53883<= 8 <3<3 2 3D, N ;24 #$ &9 7 8:;8 8 ;7;2; 2 3D, M $;24 7 =8 &;55 &< 7 8:3 B3<6 9283<3=892H ;24 D 2&943289;5 53883<= 8 ;9<4 2 3D, N ;24 M,

9=4 @C8= ;=8 8:3 3<7;232D3 &8:3 @8C@<=8 &328:@=9;=7 92 ;4<94 ;<3 5;9256 3G <3==34 92 23;<56 3B3<6 23 &8:3=3 3 9=853=, :3 83<<9C53 @243<.3=897;83 &;53 2A= 49= =;C53 & <D3= 9=.8 C3 & @24 92 8:;8 8 8);=853<3;H: 2 3D, $?:3<3 :3 ?<983= 8:;8)8:3 <32D: & <D3 92 ;92

<3A= <9H92;5 92832892 2 ?;= 8 7 B3 2 /;55;4 594 ;H<3;8 D328<3 &< ;4= ;24 ;= <8 &:;5&?;6.: @=3 C38?332 @<H =;24 ;4<94, 3;2?:953 ;9<4 ?;= 8 D 73 4 ?2 &< 7 =8 <H;B9;32;B3283 ;24 8 D 2B3<H3 2 8:3 =;73 928, D;B;5<6=D<332 92 &< 28 &8:3 D 7 C9234 & <D3 ?;= & <7 34 C6 @=:92H 8:3 8? <3H9V 7328= ?:9D: C35 2H34 8 <3A= ?2 D < = 8 ?;<4= 5;3X = ;24 <43=955;= 2 8:3 = @8: C;2> &8:3 @< S ?:953 ;9<4A= D;B;:6 C<9H;43 @243< <4 ;H38 7;43 ;& <D34 7;<D: &9. 7 =8 <H; 8 < ;24 3G832434 98=35&2 <8: &8:3 <9B3<, <3A= 92&;28<6 ?;= 2 8 8 7 B3 8955 8:3 8328: C@8 8:;8 &;9<4 ?;= ;5<3;46 <38@<292H ;= &;=8 ;= 98 D @54 7;2;H3 &< 7 /955;&<;2D;8 =8 <H;: 3 @2& <8@2;83 <43<= &<38<3;8 9==@34 2 B3 7 C3< $" :;4 D =8 9< ;B94 =9G 7;<D:3= 8:<33 &< 7 =8 <H; 8 /9 ;&<;2D;;24 8:<33 &< 7 /955;&<;2D;8 =8 <H; 89 7 3 5 =8 92 8:3 7 =8 7 9=3<;C53 ;24 @223D3==;<6 &;=:9 2, 23 &:9= C<9H;43= 8:;8 &% <323<;5 398:0 ?;= 2 ?= &;< &&8:;8 98 23B3< 7;2;H34 8 B3<8;>3 8:3 ;<7 6 ;24 ?;= @8 &8:3 H;73 &< = 738:92H 59>3 ;& <829H:8, @8 8:3 <3=8 ?:9D: :;4 256 8 <38@<2 &< 7 /955;&<;2D; =@DV D33434 92 X 9292H 8:3 7;92 C 46 92 7@D: C3883< 89 7 3 8:;2 7 9H:8 :;B3 C332 3G 3D834, :3 &;D8 ?;= 8:;8 8:3 23?= &;2 ;4B;2D3 :;4 <3=8 <34 8:3 :9H: = 9<98= &8:3 ?: 53 ;<7 6 ;24 8:3 732 =83 34 @8 = 5324945 6 8:< @H: 8:3 D 54 ;24 <;926 kB9283< 4;6= ;24 3;=956 ;DD 7 59=:34 8:39< 8?3286 7 953= C38?332 4;?2 ;24 4@=>, <3 7 3;2?:953 ?;= DD@ 934 ;8 ;5;7;2D;92 7;>92H 8:3 5;=8 <3 ;<;89 2= & <:9= ;4B;2D3, 3 :;4 ;5<3;46 =328 C;D> 928 <8@H;5 23 5;<H3 D 2B 6 2 3D37 C3< N 3=D <834 C6 8:3 &9&8:C;88;59 2 &8:3 N#8: 3H9 7 328, 3 2 ?49= ;8D:34 ;2 8:3< ?:9D: 7;<D:34 C6 9@4;4 4<9H ?:3<3 98 9D>34 @ 8:3 I<4 8 ?: H@;<434 98 C;D> 8 <8@H;5 :3 8? C38?332 8:37 D 28;9234 ;55 :9= :3;B6 C;HH;H3 ;24 ;55 8:3 =9D> &< 7 :9= C;=3 : = 98;5 ?: D @54 C3;< 8<;2= <8 < C;C56 7 <3 8:;2 N## 92B;594=K & < 8:3 8 8;5 2@7 C3< &8:3 =9D> &8:3 ;<7 6 ?;= B3<6 23;<56 L ### ;24 8:3 5;<H3< :;5& &8:37 7 @=8 :;B3 C35 2H34 8 <3A= 1 ?2 D < =,

7;6 &;9<56 C3 =38 4 ?2 ;8 M# ### 732 =943= ?:;8 9= 92 ;8;5 29;, D892H @ 2 8:9= :6 8:3=9= 98 9= 2 ? 243< 8:;8 :3 ?;= D 2B92D34 8:;8 2;<83 D @54 2 8 C 8: C3=93H3 ;4<94 ;24 :@28 8:3 <989=:;<76,

2=9=892H &8:3 N =8 3H9 7 328 N"8: 0$24 C;88, P;24 N8:,

GD3 8 8:3 1 9H:8 <9H;43 &;9<4A= ;<76 ?:9D: :;4 23B3< 53&8 =8 <H; :;B92H C332 92832434 8 ;D8 ?98: 8:3 D;B;5<6 ;= ;<3;<H@;<4,

:3 I<4 :;4 C332 ;8 9@4;4 4<9H =92D3 D8, $"H@;<492HD 7 7@29D;89 2=,

$M A / % E /

?:9D:? ?;= 92 ? <=3 8<97 8:;2 8:;8 & ;9<4, :3 5 == &83:
<3H97328= =328 && 2 3=D <8 4@86 ?;= ;<856 7;43 @ ;&3?4;6=
5;83< C6 8:3;<<9B;5 &83:3 M$24 ?:9D:D;73 @ C6 & <D34 7;<D:3=
&< 7 <8 ;24 <3;D:34 32;B3283 2 3D37C3< $N, 8 ?;=)
8:3 53;492H C;88;59 2 &;C<9H;43 ?:9D:8:3 H B3<27328 :;4
<3= 5B34 8 ;44 8 <3A= & <D3 &< 7 8:3 =53243< 49B9=9 2 &
R4;4 D>A 8:3 8:3< 8? C;88;59 2= &8:3 C<9H;43 ?3<3 8 &;<
C3:924 ;24 23B3< =@DD33434 92 X 9292H 8:3 &9354.;<76 O 55 ?92H
& <8:3=3 &92;5 D:;2H3= ?3 &924 8:;8 <3 ;24 ;9<4 =8;<834 & <8:
?98:$" "LN 3&&3D89B3 =;C<3= ;24 C;6 238= 92 ?:9D:;<3 92D5@434
NM 732 2 438;D:7328K 8:36 53&8 C3:924 8:37 23;<56 L ###
=9D> $ &?3 434@D8 $ I"& < 398:A= C<9H;43 ?:9D:?;= =8955 &;<
C36 24 /955;&<;2D;;24 & <8:3C35;834 M$24 8:3;D8@;5 & <D3 ?:9D:
D;<<934 @8 8:3 H<3;8<;94 928 8:3 5;92 & 54 ;=8953 7@=8 :;B3
C332 X@=8 B3< $ ### =8< 2HK & 8:3=3 $ L # ?3<3 D;B;5<6;24
8:3<3 ?3<3 $" ;<89553<6 H@223<= ;24 4<9B3<= B98:=9G86.=9G H@2=,
<3 :;4 &D @<=3 H9B32 2 89D3 8 ; 7;2;& :9= D:;2H3
& 5;2K 92 <3= 2=3 8 :9= 53883< & 3D37C3< N 8:3 ;<J@9=
3G <3==34 :9= 53;=@<3 ;8 8:3 < = 3D8 &8:3 @29 2 &8:3 ;55934
;<793= ;24 :9= ?9=:8 D . 3<;83 8 8:3 C3=8 &:9= ?3< `, 3
:;4 2 ?D 553D834 $# ### 732 ;& <794;C53 ;<76 2 ; 3< ;24
?;= D3<8;92 8 4 :9= C3=8 C@8 ?:;8 8:;8 79H:8 ;7 @28 8 ;=
B3<6 4 @C8&@5, 8 ?;= ?355 >2 ?2 8:;8 ;H<3;8 ;<8 &:9= 8< =
?3<3 2 8 &98 8 7 B3K C@8 98 ?;= 2 8 8955 ;&3?4;6= 5;83< 8:;8
<3 <3D39B34 43&92983 9283559H32D3 ;= 8 8:3 3G;D8 ;7 @28 &
7 9598;<6 ;94 8:;8 79H:8 C3 &@<29=:34 C6 8:3 ;<76 &8:3 3&8,
:3 <989=:8< =?3<3 &@556 D 7 798834 8 8:39< 23?5;2 &
D;7 ;9H2 ;9<4 ?;= :;=83292H C;D> 8 =8 <H;8:3 =9D> ;24 8:3
D 2B 6= :;4 =8;<834 & <8@H;5 8:3 D;B;5<6 :;4 @=:34 ?355
8 8:3 &< 28 ?:32 <3 =@443256 <3D39B34 ;93D3 &9283559H32D3
?:9D: < & @2456 7 49&934 8:3 =98@;89 2, ;4<94 :;4 &;5532 928

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IN A / % E /&<;

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B9D8 <‘ &‘ ; : ; H@2‘ ; 24‘ 32 ; B3283‘ 9 7 ==9C53‘ 92‘ 8 : 3‘ D ; 7 ‘ &‘ 8 : 3‘)B9D8 <‘ &‘ / 9 7 93<

: 3‘ =D ; <34‘ =G9<B9B <=‘ &‘ 3C3 3A=‘ C<9H ; 43‘ < 43‘ C ; D>‘ 8 ‘ H9B3‘ @58‘ 2 89D3‘ 8 : ; 8‘ 8 : 3‘ 323 7 6‘ ? ; =‘ @ 2‘ : 9 7 ‘ ; 24‘ 7 9H : 8‘ D5 =3‘ 92‘ 2‘ 8 : 3‘ B3<6‘ 23G8‘ 4 ; 6,‘ 3 ; 2 ? : 953‘ <3A=‘ 92& ; 28<6 ‘ & 55)=B92H‘ 92‘ 8 : 3‘ ? ; >3‘ &‘ ; H38A=‘ : <=3 ‘ <3 ; D : 34‘ ; : ; H@2‘ 2‘ 8 : 3‘ 3B3292H‘ &‘ 8 : 3‘ 8 ? 3286.&9<=8,‘ 8‘ ? ;=‘ 8 ‘ C3‘ ; 57 =8‘ 8 : 39<‘ 5 ; =8‘ =83 ‘ 92‘ ; 4B ; 2D3,‘ : 3‘ H323<; 5‘ ; 55 ? 34‘ 23‘ 4 ; 6A=‘ <3=8‘ 8 ‘ 32 ; C53‘ 8 : 3‘ <3 ; <‘ 49B9=9 2=‘ 8 ‘ D5 =3‘ @ ‘ 8 ‘ 8 : 3‘ B ; 2‘ = ‘ 8 : ; 8‘ ; 55‘ 7 9H : 8‘ ; 4B ; 2D3‘ 2‘ ; 54 ; 2 ; ‘ ; 24‘ ; 9X 9 2‘ 92‘ ; ‘ D 7 ; D8‘ 7 ; ==,‘ 3‘ 92832434‘ 8 ‘ 4359B3<‘ : 9=‘ 7 @D : .43=9<34‘ C5 ?‘ ; 8‘ @58‘ @ 2‘ 8 : 3‘ 8 ? 3286.8 : 9<4,

: 3‘ @>3‘ &‘ ; 57 ; 89 ; ‘ 8 : @H : ‘ : 3‘ : ; 4‘ : 3 ; <4‘ 2 8 : 92H‘ ; =‘ 638‘ &‘ 8 : 3‘ <989=: ‘ 92& ; 28<6 ‘ 7 ; 43‘ 8 : 3‘ <9H : 8‘ 92&3<32D3‘ &< 7 ‘ 8 : 3‘ B9H < @=*‘ ? ; 6‘ 92‘ ? : 9D : ‘ : 9=‘ D ; B ; 5<6‘ : ; 4‘ C332‘ 4<9B32‘ 92 ‘ ; 24‘ D 2D5@434‘ 8 : ; 8‘ <3‘ ? ;=‘ 2 8‘ &; <‘ &&,‘ 3‘ 4<3 ? ‘ 4 ? 2‘ : 9=‘ =3D 24‘ 92& ; 28<6‘ 49B9=9 2‘ &< 7 ‘ ; 54 ; 2 ; ‘ 8 ‘ ; <<9 2 ‘ 8 : @=‘ D 2D328< ; 892H‘ : 9=‘ D < = ‘ ; 24‘ =328‘ ; 943=.43.D ; 7 ‘ 8 ‘ @<H =‘ ; 24‘ ; 532D9 ; ‘ 8 ‘ : @<<6‘ @ ‘ 8 ‘ : 9=‘ =@ <8‘ 3B3<6‘ <3H9 7 328‘ 8 : ; 8‘ D @54‘ C3‘ & @24,‘ : 3‘ 49= = ; C53‘ 8< =‘ 87 .234‘ @8‘ 8 ‘ C3‘ <H3=A=‘ 49B9=9 2‘ &‘ 4<; H 2= ‘ ; 24‘ 35 ; C <43A=‘ 49B9=9 2‘ &‘ 8 : 3‘ M8 : ‘ < =‘ ? : 9D : ‘ ? 3<3‘ C 8 : ‘ 2‘ 8 : 39<‘ ? ; 6‘ &< 7‘ @<H =‘ 8 ‘ ; 4<94,‘ : 3‘ <3=8‘ &‘ - @2 8A=‘ 92& ; 28<6‘ ? ; =‘ 8 ? ‘ 4 ; 6=‘ &&‘ 2‘ 8 : 3‘ < ; 4‘ &< 7 ‘ / 988 <9 ; ‘ 8 ‘ @<H =,‘ : 3‘ C<9H ; 43‘ &‘ <; 2D3=D : 9A=‘ D ; B ; 5<6‘ ? : 9D : ‘ : ; 4‘ 3B ; D@ ; 834‘ / ; 55 ; 4 594 ‘ ? ; =‘ ; 5= ‘ : 3 ; <4‘ &‘ 2‘ 8 : 3‘ ; 532D9 ; ‘ < ; 4,‘ ‘ 23?=‘ <‘ <43<=‘ : ; 4‘ C332‘ <3D39B34‘ &< 7 ‘ ; 4<94 ‘ ? 98 : ‘ ? : 9D : ‘ 5 ; D3‘ D 7 7 9 7 9D ; 89 2‘ ? ; =‘ 2 ?‘ 256‘ ==9C53‘ C6‘ 8 : 3‘ < @83‘ &‘ <; 24 ; ‘ 8 : ; 8‘ C6‘ / ; 55 ; 4 594‘ C392H‘ D5 =34,

&‘ <3 ‘ ; 55 ? 92H‘ : 9=‘ 92& ; 28<6‘ 8 : 3‘ 29H : 8‘ &‘ 8 : 3‘ 8 ? 3286.&9<=8‘ ; 24‘ 8 : 3‘ 7 <292H‘ &‘ 8 : 3‘ 8 ? 3286.=3D 24‘ 8 ‘ <3D<@98‘ 8 : 39<‘ =8<32H8 : ‘ : ; 4‘ * 7 ; <D : 34‘ 2‘ ; 9 9 2‘ 2‘ 8 : 3‘ ; &83<2 2‘ &‘ 8 : 3‘ 5 ; 883<‘ 4 ; 6 ‘ : 3‘ ? @54‘ : ; B3‘ D ; @H : 8‘ @58‘ ; 8‘ ; ‘ 49= ; 4B ; 28 ; H3‘ ; 8‘ 4 ; ? 2‘ 2‘ 8 : 3‘ 8 ? 3286.8 : 9<4 ‘ & <‘ 2 23‘ &‘ 8 : 3‘ =@ <892H‘ & <D3=‘ : ; 4‘ 638AH 8‘ 928 ‘ 8 @D : ‘ ? 98 : ‘ 8 : 3‘ ; <=: ; 5,‘ &‘ 8 : 3‘ 5 ; 883<‘ : ; 4‘ 4 ; <34‘ 8 ‘ 7 ; >3‘ ; ‘ =8 ; 24 ‘ : 3‘ ? @54‘ : ; B3‘ C332‘ D<@= : 34K‘ C@8‘ 98‘ 9=‘ 7 <3‘ < C ; C53‘ 8 : ; 8 C392H‘ ; ‘ <@4328‘ H323<; 5 : 3‘ ? @54‘ : ; B3‘ &; 5532‘ C ; D>‘ ; ‘ 7 ; <D : ‘ 92‘ 8 : 3‘ 49<3D89 2‘ &‘ 9@)H =,‘ @8 ‘ ; =‘ 98‘ D : ; 2D ‘ <3‘ <3= 5B34‘ 8 ‘ H9B3‘ ‘ : 9=‘ 732‘ & <86 . ‘ 39H : 8‘ : @<=‘ 92=83 ; 4‘ &‘ 8 : 9<86 .=9G‘ ; 8‘ ; : ; H@2 ; 24‘ 8 ? 35B3‘ : @<= ‘ &83<‘ : 9=‘ <38@<2‘ &< 7 ‘ ; 92‘ 92‘ - ; 2@ ; <6 ‘ M#"‘ ‘ ; H38‘ 35 34‘ ? 98 : ‘ 8 : 3‘ ? 9&3‘ &‘ 32<6‘ 3553=536 ‘ 8 : 3‘ 6 @2H3<‘ C< 8 : 3<‘ &‘ 35592H8 2,‘ ; 8@<; 556‘ 8 : 36‘ D @54‘ 2 8‘ C3‘ 5 ; D34‘ 8 H38 : 3<‘ & <‘ 7 ; 26‘ 63 ; <=‘ ‘ ; 24‘ ; H38‘ 5 =8‘ : 9=‘ D : ; 2D3‘ &‘ =3392H‘ ; 26‘ 7 <3‘ &‘ 8 : 3‘ ? ; <;‘ @8‘ ; 8‘ ; 83<5 ‘ : 3‘ H5 <9 @=56‘ B9249D ; 834‘ : 9=‘ <3 @8 ; 89 2‘ ; =‘ 8 : 3‘ C3=8‘ 59B92H‘ <989=: ‘ D ; B ; 5<6. &&9D3<,

IM A / % E /&<<

&832 =@&&9D3 8 D:;2H3 8:3 ?: 53 =98@;89 2, :3 ;<76 ?;= 8 54 8 <3=8 ;= 5 2H ;= 4;659H:8 5;=834 2 8:3 8?3286.8:9<4 ;24 8 7 ;<D: ;8 29H:8&;55 = ;= 8 ; 3;< 92 &9A 28 &8:3 C<94H3 & ;<<9 2 ;8 4;?2 2 8:3 8?3286.& @<8:, 88;D>34 ;8 4;6C<3;> 8:3 ;<=:;5 ? @54 ;= <3 : 34 &9242 89738 <H;29R3 :9= <38<3;8 ;24 ? @54 8:@= C3 & <D34 8 &9H:8,

:953 ?;9892H ;8 ;:;H@2 & <8:3 = 2 8 =38 <3 <3D39B34 ; 49= ;8D: &< 7 ; 7;2; 8 =;68:;8 92 ;DD <4;2D3 ?98: :9= < 79=3 :3 :;4 7;<D:34 &< 7 3 2 8 ;94 :9= ;5593=, @8 :3 D @54 256 @8928 8:3 &9354 = 73 M### 732 ;24 ; =92H53 C;88396 ?98: ?:9D: :3 :;4 ;4B;2D34 8 ;2=955; ?98: :9= B;2H@;<4 ;8 /955;<7929 2 8:3 < ;4 8 ;54;2; 3 ?;= 8:@= C@8 39H:8332 7953= &< 7 ;:;H@2 ;24 8: @H: :3 :;4 256 C< @H:8 ; 8:9<4 & :9= ;<76 ?98: :97 D @54 C3 @8959R34 92 8:3 2D 792H 3<;89 2=,

@8 8:9= ?;= 2 8 8:3 256 23?= ?:9D: <3;D:34 <3 2 8:3 ;&83<2 2 & 8:3 8?3286.8:9<4, 256 8? = : <8 : @<= C3& <3 :3 <3D39B34 8:3 49= ;8D: &< 7 ;2=955; ;2 8:3< 2 83 &< 7 ; 7;2; :;4 D 73 92 ?98: 92& <7;89 2 & B3<6 7@D: H<3;83< 97 <8;2D3, D 2&943289;5 ;H328 & 8:3 ;<J@9= C36 4 8:3 @< :;4 =328 :97 ; 73==32H3< ?98: 23?= 8:;8 ;55 8:3 <32D: & <D3= 92 8:3 49<3D89 2 & 8:3 =D@<9;5 ?3<3 8@<292H 2 <8:?;<4 ;24 D< ==92H 8:3 %@;4;<<;7; ; @8892H 8:9= 9283559H32D3 =943 C6 =943 ?98: <@7 @<= C< @H:8 92 C6 3;=;28= 8 8:3 3&&3D8 8:;8 JH<3;8 J@;289893= & & 4 ;24 & <;H3 :;4 C332 <43<34 8 C3 D 553D834 92 8:3 B955;H3= ?3=8 & ;532D9; <3 4<3?8:3 <9H:8 92&3<32D3, :;8 :3 :;4 ;5?;6= 3G 3D834 :;4 D 73 8 ;==, ; 53 2 :;4 8@<234 2 <8: &< 7 ;4<94 ;24 ?;= :;=83292H ;D< ==8:3 7 9528;92= *8 B3<?:357 8:3 <989=:;<76

98: @8 5 =92H;7 7328 <3 D @283<7;2434 :9= ;4B;2D3 2 ;<<9 2, :3 <43<= ?328 @8 ;8 2923 AD5 D> ?:32 8:3 53;492H C<9H;43= :;4 ;5<3;46 =8;<834, =8:3 732 ?3<3 8<; 7 92H B3<8:3 &< R32 =2 ? 92 &@55 3G 3D8;89 2 & ; &9H:8 ;8 4;?2 8:36 ?3<3 =@443256 8 54 8 :;58, 7 7328 5;83<D;73 8:3 D 7 7 ;24 8 8@<2 C;D> C6 8:3 < ;4 8:;8 8:36 :;4 D 73 ;24 8 <389<3 8 8:39< C9B @;D= &8:3 <3B9 @= 4;6, 883<56 @RR534 ;24 7@D: 49=H@=834 8:3 8< = <38@<234 8 ;:;H@2,

* <7 <3A= 49= ;8D: 8 ; 7;2;?<98832 2 8:3 8?3286.8:9<4 ?3 H;8:3<8:;88:3 53883< ?98:8:3 23?= ;C @88:3 <32D: 7 B37328= D;73 92 ;C @8 =9G ,7,;24 8:3=3D 24 23 ?98:8:3<3 <88:;88:3 ;29;<4= :;4 <3;D:34 ;2. =955;; C @8 39H:8, :3 5;883< 9= ;D>2 ?534H34 92 ;= 8=D<9 8 8 <3A= <3 56 8 8:3& <73<, :3 <3= 5B3 8 <38<3;8 ?;= 7;43 C38?332 =9G ;24 39H:8 AD5 D>,

L#' A ' ' ' ' W b ,' $

D <<3= 2432D3' <43<=' & <' 2;B;5' &&9D3<3' 8 ' C3' :@<<934' @ ' 8 ' <3.$
<H;29R3' 8:3' 8@ 32;5' &' 9=C 2'O' ;24' ;' <9B;83' 2 83' 8 ' 3==93<3= '
8:3'D 7 7 ;243<.92.D:93&' &'8:3'D;B;:6 C94492H' :97' =8;<8' :9=' = ;<3'
: <=3=' ;24' :9=' 3<= 2;5'C;HH;H3'& <' ;5;B3<;
:3' 7 3< <A=' C=892;83' <3&@=;5'8 ' 5 >' 92' 8:3' <9H:8' 49<3D89 2'
9=' B3<6' D79 @=' ?:32' .?3' <3737C3<' 8:;8' <3A=' D;B;5<6' ?;=
=?33 92H' 8:3' 5;92=' ;=' &;<' ;=' /;55;4 594' &< 7' 3D37C3<' $'8 ' N'
;24' 8:;8' 2' 8:3' 39H:83328:' <;2D3=D:9' :;4' ;C;24 234' 8:;8' 97V
<8;28' D986' ?:953' @58' :;4' H 8' 23?=' &' <3A=' C392H' 2' 8:3'
7 B3' 8? ' 4;6=' 3;<593<;' 53;<56' 398:3<' 8:3<3' ?;=' H<;B3' 23H53D8' 92'
=32492H' 92& <7;89 2' 2' 8:3' ;<8' &' 8:3' <32D:' D;B;5<6' H323<;5='
92' 54' ;=8953' <' 35=3' 8:3' 7 3< <' :;4' =' D 2B92D34' :97=35&' 8:;8'
8:3' <989=:' ?3<3' = 73?:3<3' 2' 8:3' < ;4' 8 ' 9=C 2' 8:;8' :3;494'
2 8' <3;4' 8:3' 8<@3' 73;292H' &' 8:3' 49= ;8D:3=' &< 7' 8:3' 2 <8:;' 3'
8:9=' ;=' 98' 7 ;6' 98' 9=' 3B94328' 8:;8' 8:3<3' ?;=' ;' =3<9 @=' &;95@<3' 92' 8:3'
97 3<9;5' 9283559H32D3' 43 ;<87328' ;24' 8:;8' ;' ?33>' <' 7 <3' ?;=
?;=834,' 2; ;<83' @H:8' 8 ' :;B3' C332' ;=89<' 8? ' <' 8:<33.4;6='
;&83<' 83?;<8' ;24' ;H38' 4< B3' 92' <;2D3=D:9A=' =D<332' &' B343883=;'
=' ;' 7 ;883<' &' &;D8' 98' ?;=' 2923' 4;6=' C3& <3' ;26' 7 B3' ? ' 7 ;43'
;8' 8:3' <32D:' :3;4' J@;<83<=K 638' @34;' 9=' 256' 292386.&9B3' 7953='
&< 7' ;4<94,
:3' &9<=8' 43&92983' 9283559H32D3' ;=' 8 ' 8:3' 2H59=:' C392H' 2' 8:3'
7 B3' 92' 54' ;=8953' <3;D:34' 8:3' 7 3< <' 2' 8:3' 3B3<992H' &'
3D37C3<' ",' 38' 98' ?;=' 256' 2' 8:3' 8?3286.&9<=8' 8:;8' :3' <3;556'
;? >3' 8 ' 8:3' &@55' 73;292H' &' 8:3' <3 <8=' 8:;8' <3;D:34' :97' &< 7'
@58' ;24' <;2D3=D:9`;' @8' ?:32' :3' 494' ;8' 5;=8' <3;59R3' 8:3'
=98@;89 2' :3' ;D834' ?98:' ;' =@4432' ;24' = ;=7 49D' 323<H6' ?:9D:'
?;=' 23B3<' =9@. ;==34' 92' ;26' &' :9=' 3;<593<' D;7 ;9H2=;' 3' :@<534'
2' 8 ' <3A=' 8<;D>' 2 8' 256' 8:3' D328<;5' <3=3<B3' ;8' ;4<94' C@8'
8< =' H;8:3<34' 92' &< 7' ;' 49<3D89 2=' 89 ' :3' :;4' =38' ;8' 53;=8
M# ###' 732' 2' 8:3' 7;<D:' 8' 32D 7 ;==' 8:3' <989=:' D < =' ?:9D:'
:;4' =' :;<4956' 8:< ?2' 98=35&' @ 2' :9=' D 7 7@29D;89 2=;' <3'
:;4' C332' 3<&3D856' <9H:8' ?:32' :3' =8;834' :9=' C3593&' 8:;8' 8:3' =9H:8'
&' 8:3' <34D ;8=' ?98:92' <3;D:' ? @54' =89<' 8:3' 7 3< <' @ ' 8 ' =@D:'
?<;8:' 8:;8' :3' ? @54' ;C;24 2' 3B3<6' 8:3<' 3283< <9=3' ;24' <@=:'
@ 2' 8:37' ?98:' 3B3<6' ;B;95;C53' 7;2,
2' 8:3' 3B3292H' &' 8:3' 8?3286.&9<=8' 8:3' <32D:' 8< =' &9A 7' 3B3<6

' , &' * &$' LN L'8 ' 479<;5' 33<3=;' &;' 3' <;48' ;' $,
* , &' * &$' L NI'8 ' 3==93<3=' 3D;' $,
+' 2' , &' * &' 8:3<3' 9=' 2 '8<;D3' &' 7 B3732'8955' 8:3' 8?3286.=3D 24,

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D;7 ‘ ;< @24‘ ;4<94‘ ?3<3‘ @<92H‘ @8‘8 ?;<4=‘8:3‘ =D@<9;5‘;24‘ 18:3‘8? ‘ ;==3=‘ B3<‘8:3‘%@;4;<<;7;,‘ :3‘D;B;:6‘ &‘ 36A=‘D < =‘ ;24‘ &‘8:3‘ 7 3<9;5‘%@;<4‘ ?;=‘92‘&< 28‘8:32‘D;73‘8:3‘ 7;==3=‘ &‘8:39<‘92&;28<6,‘ ; 9==3A=‘49B9=9 2‘&355‘92‘C3:924K ;2‘3G <3==‘ ?;=‘=328‘8 ‘ 3== 553=‘ ?:‘ ?;=‘H@;<492H‘8:3‘< ;4‘8 ‘ ;5;8;6@4‘ ;24‘ ;<;H ==;‘8 ‘53;B3‘ 256‘8? ‘C;88;59 2=‘;24‘;‘C;883<6‘C3:924‘ ;24‘8 ‘7;>3‘& <D34‘7;<D:3=‘ 2‘8:3‘ =D@<9;5‘?98:‘8:3‘<3=8‘ &‘:9=‘ 732,‘ 2 8:3<‘;943.43.D;7 ‘< 43‘8 ‘=38‘ ;: @==;63A=‘49B9=9 2‘ &‘4<;H 2=‘ 2‘8:3‘7 B3‘&9K 7‘ B95;‘ 92;556‘73==32H3<=‘< 43‘ 2 <8:‘8 ‘C94‘ <H3=A=‘4<;H 2=‘;24‘;55‘8:3‘&9<;D89 2=‘ &‘-@2 8A=‘ D < =‘8 ‘ 5;D3‘8:37=35B3=‘ @243<‘8:3‘ <43<=‘ &‘ @58,‘ 95538A=‘ C35;834‘49B9=9 2‘ &‘4<;H 2=‘?;=‘8 ‘4 ‘8:3‘=;73‘9&‘98‘:;4‘638‘ D< ==34‘8:3‘ C< ,

:3‘ 7 3< <‘ 2D3‘7 <3‘D 7 7 98892H‘8:3‘3<< <‘ &‘;<H@92H‘&< 7‘ 92=@&&9D9328‘4;8;‘:;4‘7;43‘@ ‘:9=‘7924‘8:;8‘8:3‘ 2H59=:‘?3<3‘;8‘ /;55;4 594 ,‘ 3‘:;4‘2‘23?=‘&< 7‘8:;8‘ 5;D3‘=92D3‘ <;2D3=D:9‘ :;4‘;C;24 234‘98‘;24‘D: =3‘8 ‘;==@73‘8:;8‘ <3‘ <‘;8‘;26‘<;83‘ = 73‘ <89 2‘ &‘8:3‘ <989=:‘;<76‘?;=‘8:3<3‘3=8;C59=:34,‘ 243<‘ 8:9=‘:6 8:3=9=‘98‘? @54‘C3‘3;=6‘8 ‘D@8‘ &&‘8:3‘<;943<=‘&< 7‘;‘ <38<3;8‘ 2‘ <8@H;5‘ <‘3B32‘ 2‘%;59D9;‘C6‘D;<<692H‘8< =‘?98:‘ 3G8<3 7 3‘= 334‘8 ‘ <43=955;=‘;24‘ 3492;‘43‘ 9 ‘3D ,‘ :9=‘D 7V ;<;89B356‘3;=6‘8;=>‘?;=‘;55‘8:;8‘ ; 53 2‘;9 7 34‘;8‘92‘:9=‘&9<=8‘ 49<3D89 2=,‘ /955;D;=892‘ <3B;5‘ 5 7 34‘ ;24‘ 3492;‘435‘ ;7 ‘ 89<3‘8:3‘ 928=‘8 ‘?:9D:‘:9=‘ <43<=‘ &‘ 3D3 7 C3<‘$‘;24‘$$‘<3J@9<3‘ 8:;8‘8:3‘;4B;2D92H‘D 5@7 2=‘=: @54‘C3‘ @=:34,

<‘8:3‘ 7;92832;2D3‘ &‘ ;4<94‘.;24‘8:3‘T‘D 28;9292H‘A‘ &‘8:3‘ ;29=:‘;<793=‘;8‘ @32D;‘;24‘ 57;<;R‘8:3‘ 7 3<‘<53&8‘2 8:92H‘ C3:924‘C@8‘8:3‘D < =‘ &‘ 3&3CB<3‘8? .8:9<4=‘ &‘8:3‘D < =‘ &‘/9D8 <‘ ;24‘8:3‘8:<33‘D;B;5<6‘49B9=9 2=‘ &‘ ;=;553‘ 95:;@4‘;24‘ ;8 @<.‘ ;@C @<H M###‘ : <=3‘;24‘$M###‘& 8‘92‘;55‘?98:‘292386‘H@2=`,

‘ 55‘8:9=‘D;2‘C3‘=8@4934‘92‘, &‘* &$‘ LN#"‘ LN LN L,‘ :3‘ 7;<D:‘ @8‘8 ?;<4=‘8:3‘ =D@<9;59=‘&9G34‘C6‘8:3‘ ‘ # ‘ &‘ 3D,‘$I‘;=‘ :;B92H‘C3H@2‘5;83‘ 2‘8:3‘8?3286.&9<=8,

* :9=‘3<< <‘; 3;<=‘92‘, &‘* &$‘ LN L‘W 3D,‘$$]‘)=9‘53=‘ 2H5;9=‘ B3@532‘8329<?‘/;55;4 594‘A‘S‘ LN N‘W 3D,‘$I]=;6=‘T‘ 3=‘ 2H5;9=‘;<;9==328‘38<3‘;‘ /;55;4 594‘ < C;C53 7 32‘8;B3D‘@23‘;B;28.H;<43,A‘ 8,‘9=‘ 256‘ 2‘ 3D,‘$‘8:;8‘ :3‘?<983=‘8 ‘092H‘ - =3 :‘8:;8‘8:36‘:;4‘23B3<‘C332‘8:3<3‘;8‘;55‘=;B3‘?98:‘ ;‘&5692H‘ ;<86‘ &‘ ## 59H:8‘D;B;5<6,

‘ :9=‘9=‘ ; 53 2A=‘ ?2‘3=897;83‘3, &‘* &$‘ LN NP,‘ ;<=:;5 - @<4;2‘?:‘?;=‘7 <3‘ <53==‘92‘D:;<H3‘&‘8:3‘?: 53‘;=‘D:93&‘ &‘8:3‘=8;&& 8‘092H‘ - =3 :‘=;6=‘8:;8‘8:3<3‘?3<3‘92‘<3;5986‘ 256‘I# ###‘732‘92‘;55

M##M] % LI

5@<3 8:3 D328<;5 &9354.;<7 6 &8:3 <32D:&9. 7 ;4<94 ;24 8 , =8 23 8:3 92B;=9 2 &8:3 = @8:; ;26 &:9= ; 5 H9=8= ;24 ;4 7 993<= : ;B3 3GD@=34 :9= C592423==C6 =;692H 8:;8 <3A= 5;2 ?;= = <;=:;24 :;R;<4 @= 8:;8 2 =32=9C53 7 ;2 D @54 :;B3 H@3==34 * 98, @8 8:9= 9= ;D 7 5383 7 9=8;>3K 8:3 5;2 9& < 3<56 D;<<934 @8 ?;= 3<&3D856 = @24, 9< - :2 >23? <3D9=356 ?:;8 :3 ?;= 4 92H ;24 ?;= <3 ;<34 8 8@<2 2 :9= :335 ;24 H C;D> ;8 &@55 = 334 8:3 92=8;28 8:;8 :3 =;?8:3 53;=8 7 B3 7 328 2 8:3 =943 & ;4<94, 8 ?;= 92 2 <;=:= 9<98 8:;8 :3 ;D834 C@8 <;8:3< 8:3 <3B3<=3K T 7 3;2 8 < D334 C<9453 92 :;24 A :3 =;94 T;24 9&8:3 C@CC53 C@<=8= ?3 =:;55 :;B3 ;<@2 & < 98,A 24 2 8:9= <92D9 53 :3 ;D834K 8:<33 : @<= ;&83< :3 H 8 2 89D3 8:;8 ; 53 2 ?;= 2 8:3 7 ;<D: :3 =8;<834 8 T 7 ;>3 ;<@2 & < 98A 8 =8 <H; ;24 :9= < 7 823== ?;= =@D:8:;8 :9= 7 ;92 C 46 ?;= 23B3< 92 8:3 =59H:83=8 4;2H3< &< 7 8:3 7 3< <A= <@=: 2 32;B3283 &93<D3 ;24 =@4432 8: @H: 98 ; :3 49=;=83<= &8:3 =3D 24 ;<8 &8:3 <38<3;8 ?3<3 2 8 92 8:3 53;=8 D;@=34 C6 ; 53 2A= 9283<D3 892H 7 B3 7 328 ?:9D: < B34 ;2 ;C= 5@83 ;24 D 7 5383 &;95@<3,

@8 8 < D334K 36A= D < = ?:9D: 534 8:3 ;4B;2D3 ;H;92=8 <3 D< ==34 8:3 %@;4;<<;7; 2 8:3 29H:8 & 3D3 7 C3< $;24 :;4;<<9B34 =;&356 ;8/955;D;=892 2 8:3 2 <8:3<2=943 &8:3 ;==3= 2 8:3 7 <292H &8:3 8?3286.=3D 24, =9&8 D 28<;49D8 8:3 7 3< <A= =8;83 7 328 7 ;43 ;= :3 ?;= =38892H @8 8:;8 T 8:3 ?3;8:3< D @54 2 8 C3 C3883< A ;4<3;4&@5 83 7 3=8 ;< =3 8:;8 4;6, :32 2 ;<83 < 43 @ &< 7 :;7;<892 8 5;D3 9 7 =35& ;8 8:3 :3;4 &9=%@;<4 ?:9D: ?;= 8 D< ==8:3 7 @28;92= 2 8:3 8?3286.=3D 24 :3 & @24 8:3 ?: 53 D 5@7 2 =8 34 C6 ;: ?592H C59RR;<4 ?:9D:=?3 8 4 ?2 8:3 ;== ?98:9<<3=9=89C53 =8<32H8:;24 9534 8:3 =2 ?92 5;<H3,4<9&8= ;8 3B3<6 92D 2B329328 D 7 3< &8:3 43&953, 8 9= ;94 8:;8 =3B3<;5: <=3V 7 32 ?3<3 &5@2H B3< <3D9 9D3= C6 8:3 7 3<3 & <D3 &8:3 ?924, :3 ?: 53 8<;92 &D;22 2 ;24 D;9== 2= =8@D> :;5&?;6 @ 8:3 ;=D328 ;24 D @54 2398:3< ;4B;2D3 2 <38<3;8, /9 532856 9<<98;834 ;8 8:3 5 2H 435;6 ; 53 2 8@<234 2 3B3<6 9 233<8:;8 D @54 C3 & @24 8 D53;< ;?;6 8:3 4<9&8= =38 7 ;==3= &7 32 8 8<; 7 53 4 ?2 8:3 =2 ?92 8 ;C3;832 8<;D> & <D34 8:3 &&9D3<= ;24 ;55 8:3 D;B;5<6 8 49=V 7 @28 ;24 53;4 8:39< : <=3= ;24 @2:;<23==34 :;5& 8:3 ;<89553<6 = ;= 8 H9B3 4 @C53 83;7= 8 8:3 <3=8, 2 8:9= ?;6 8:3 %@;<4 ?98:8:3 7 3< <,?;5>92H 2 & 8 92 98= 7 94=8 =@DD33434 ;8 5;=8 92 D<;?592H 8:< @H:8 /9 ;D;=892 C6 8:3 29H:8 & 3D3 7 C3< $I, <3 8 ;9<4 &< 7 ;5;7);2D; 3D, N,

9< - : 2 : ; 4 D 7 7 32D34 : 9= <38<3 ; 8 &< 7 ; : ; H@2 2 8 : 3 8 ? 3286.& @<8 : ? 98 : 8 : 3 9283289 2 & <389<92H 8 =8 <H ; ; 24 & 8 ; >92H)@ ; =989 2 2 8 : 3 7 @28 ; 92= C3 : 924 98 8 : ; 8 7 9H : 8 D B3< % ; 59D9 ; , 3 494 2 8 928324 8 <389<3 ; 26 &@<8 : 3< @253== : 3 ? 3<3 C59H34 & @58 = : @54 & 55 ? : 97 D5 =356 ? : 953 8 : 3 7 3< ? ; = =8955 8 ? < 8 : <33 7 ; <D : 3= ; ? ; 6 : 3 ; 22 @2D34 : 9= 9283289 2 & 8@<292H @ 2 8 : 3 ; <= : ; 5 ; 24 &&3<92H : 97 C ; 8853, 3 ? < 83 8 ; 7 ; 2 ; ; =>92H : 97 8 : 54 8 : 3 C<94H3 & ; 2=955 ; 08 : 3 7 =8 2 <8 : 3<56 ; == ; H3 B3< 8 : 3 =5 ; P ; = 5 2H ; = 7 9H : 8 C3 <@4328 ; 24 8 : 32 8 <389<3 2 8 : 3 =8@<9 ; = 53 ; B92H 8 : 3 < ; 4 8 % ; 59D9 ; D53 ; < & <)8 : 3 2H59= : ; < 7 6 `,

8 2 2 2 8 : 3 8 ? 3286.& @<8 : <3 =8 ; <834 &&92 8 ? D 57 22=K ; 9<4A= 49B9=9 2 7 ; <D : 34 C6, 8 : 3 2 <8 : 3<2 < ; 4 8 / ; 532D9 ; 43 2 -@ ; 2 ? : 3<3 8 : 3 =5 ; 9= ; == ; C53 C6 ; & <4 ; 24 ; &3 2 6K 3 ; 24 < ; =3< 8 > 8 : 3 7 <3 = @8 : 3<2 < @83 C6 ; 6 <H ; ; 24 8 : 3 C<94H3 & ; =8< % 2R ; 5 : 3 <3=3<B3 49B9=9 2 97 43< , ; H38 ; 24 8 : 3 8 ? 59H : 8 C<9H ; 43= <37 ; 9234 C3 : 924 ; 8 ; : ; H@2 & < 8 ? 3286.& 9@* : @<= 8 D B3< 8 : 3 <38<3 ; 8, : 3 &9B3 D ; B ; 5<6 <3H9 7 328= ? 3<3 <43<34 8 <3== 92 D5 =356 @ 2 @58 ; 24 8 >33 : 97 ; = 5 2H ; = ==9C53 92 4 @C8 ; = 8 ? : 38 : 3< : 3 ? ; = 2 8 : 97 =35& ; C @8 8 C3 ; 88 ; D>34,

: 9= 437 2=8<; 89 2 =337 = 8 : ; B3 =3<B34 98= @< =3 & < 8 : 3 &9<= : ; 5 7 ; 43 2 7 B3 398 : 3< 2 8 : 3 8 ? 3286.& @<8 : < 8 : 3 8 ? 3286. &9&8 : , 38 C6 8 : 3 5 ; 883< 4 ; 6 : 9= ; <7 6 ? ; = H< ? 92H B3b6 & < 7 94 ; C53 ; = ; 55 8 : 3 D < = &< 7 @<H = ; 24 ; 532D9 ; ? 3<3 <3 <892H 8 : 37 =35B3= 8 : 97 K <H3=A= 4<; H 2= : ; 4 <3 ; D : 34 <3D : 955 ; ; 24 35 ; C <43 ? 98 : 8 : 3 : 3 ; 4 j 8 : 3 92& ; 28<6 & - @2 8A= D 9. = ? ; = ; 8 ; <343= 256 8 : 9<8332 7 953= &< 7 @58A= : 3 ; 4 J@ ; <83<= ; 8 ; <<9 2, 9= 2 ; 24 3@43538 ? 3<3 2 8 & ; < C3 : 924, 38 8 : 3 2H59= : D 5@ 7 2= 7 ; <D : 34 & < 8 ? 4 ; 6= ? : 556 @2 7 53=834,

2 8 : 3 8 ? 3286.=9G8 : ; 9<4 D< ==34 8 : 3 =5 ; ; 8 / ; 532D9 ; K 8 : 3 & <4 ? ; = 4 ; 2H3< @= & < 8 : 3 <9B3< ? ; = <9=92 HK ; =@4432 8 : ; ? 2 8 : 3 8 ? 3286.& @<8 : : ; 4 8@<234 8 : 3 < ; 4= 928 7 @4 ; 24 5 =3234 8 : 3 =2 ?=, @8 8 : 3 H@2= ; 24 C ; HH ; H3 D< ==34 ? 98 : @8 5 == ; = 494

8 : 3 ' ' & 8 : ; 8 B3<6 4 ; 6 ; 2 89D3 8 : ; 8 ; <989= : D < = ? ; = 92 8 : 3 7 =8 D<989D ; 5 =989 2 8 : ; 8 98= <38<3 ; 8 ? ; = D@8 && ; 24 8 : ; 8 T 24 2 = 5 2H 92=32=9C53 8 8 : 3 ? 3= & ; 92 ? 955 = 2 H<93B3 B3< ; 49= ; =83< 8 : ; 8 9= : 3< ? 2 ; 24 2 8 8 : ; 8 & ; 2 8 : 3<,A

<3 8 ; 7 ; 2 ; &< 7 ; : ; H@2 29H : 8 & 3D, $I .L *

<3 8 ; 7 ; 2 ; &< 7 ; : ; H@2 3D, $L,

LN A E / <@

;5= = 73 &8:392&;28<68:3<3=8@=92H8:38? &3<<6.C ;8= ,

3 ;24 <;=3< 2 8:3 ;6 <H;< ;4 :;4 2 8:92H C@88:3 C;423== &8:39<< @83 8 D 28324 ;H;92=8, :3= 95 &8:9= ;<8 &8:3>92H4 7 &3 2 9= ;= &8 <9D:5 ;7 ;24 8:3 D< ==.< ;4= ?3<3>233.433 92 D5;6K & <8:3?: 53 &8:38?3286.=9G8:98 <;9234?98: @88 9283<79==9 2K8:38< = 5 4434 95 92 B3<6=@<56 7 4 C@8 ;= 638 8:3<3?;= 2 =8<39HH592H, 8 B;= =8955 C3593B34 8:;8 <3?@54&9H:8;8 =8 <H;;24 8:@H:8:3 732H<@7C534 8:;8T8:3 %323<;5 92832434 8 7 ;<D:8:37 8 43;8:&9<=8 ;24 8 &9H:8;&83</ 8:36 =8955>3 8 8 H38:3<,

@8 ;5<3;46 =9H2= ?3<3C3H92292H8 C3 B9=9C53 8:;8.8:39< 49=V D9 5923?;=;C @88 C<3;>4 ?2, H 4 43;5 &?;28 2 4;7;H3 ;24 ;D3<8;92 ;7 978 & 5@243< 8 > 5;D3 ;8 8:3 :;5892H. 5;D3= & <8:3 29H:8 ;6 <H; /;543<;= ;24 32;B3283, B 9D3 &< 7 8:3 <;2>= 3G 5;92= 8:3 =98@;89 2, T @< =@&&3<92H= B3<3 = H<3;8 8:;8 7;26 &8:3 732 5 =8 8:39< 2;8@<;5 ;D89B986 ;24 = 9<98= ;24 C3D;73 =;B;H3 92 8:39< 49= =989 2=, :3 943;& <@2292H ;?;6 ?98: @88 3B32 &9<92H ;= 8 &< 7 8:3 32376 ?3 :;4 C3;832 = 3;=956 ;8 /97 93< ?;= 8 H;5592H 8 8:39< &33592H=, ;D:= >3 8 :9= &355 ? 3B32 92 D 7 7 2 D 2B3<=;89 2 ?98:C9883<23==$ <;H3 &5;=:34 @88 2 8:3 7 =8 8<9&592H DD;=9 2 &49=;H<33 7328, :3 < ;29;<4= :;4 598853 8 3G 3D8 &< 7 =@D:7 32 ;= 8:3=3 ?: C5;7 34 8:37 & <8:39<< 92;D89B986, B3<6 7;2 & @24 ;8 : 73 ?;= 5 >34 @ 2h89;= ;8<;98 < 8 :9= D @28<6, + :6 9= 2 8 3B3<6 ;29;<4 @243< ;<7= ;24 &9H:892H2 :3 D;@=3 9= 2 8 G@K=K ;<3 ?3 8 C3 8:3 256 =@&&3<3<= Ic @D:?;= 8:3 D 7 7 2 5;2H@;H3 ;24 &< 7 8:3=3 &33592H= 955;H3 ;24 @8<;H3 2;8@<;556 ;< =3 / :3 732 C3H;2 8 =39R3 & 4 92 8:3 8 B2= ;24 B955;H3= ?98: @8 ?;9892H & <8:3 <3H@5;< 49=8<9C@89 2 & <D34 8:39< ?;6 928 : @=3= ;24 08:3 D @28<6 C392H =92H@5;<56 43=898@83 &? 4 8 <3 4 B2 =:34= ;24 4 <= 8 C@954 @ 8:39< C9B @;D &9<3=, :3 7 =8 43. * 5 <;C53 79=D:93& 8 > 5;D3 ;8 32;B3283 ?:3<3 8:3 <3H97328 J@;<83<34 92 8:3 9D8@<3=J@3 54 D;=853 C35 2H92H 8 8:3 @D:3== & ==@2;C@<28 7@D: & 8:3 7349;3B;5 &@<298@<3 8 <3 4 ?2 8:3 =9G83328:.D328@<6 8; 3=8<6 8 7;>3 C34.D5 8:3=;24 59H:834 &9<3=

):3<3 9=;H 4 ;DD @28 &8:9= 4;2H3< @= ;==;H3 92 4;7 3;53= 1& ' * #& 6 ' JOAO

* 37 9< &T ;,= &8:3 5=8 9H:5;243<= ;NI,

' ;7;H;92 J@ 892H&< 78:3;479<;C53 2;<<;89B3 &) ;,A 8:3 <9B;83 92 8:3 5=8, 7 ;<3 <7=C6= ! $99," $.I & <8:3?;28 2 5@243<92H,

2 8:3 &5 <= &8:3 < 7=8 8:3 43=8<@D89 2 &8:3 <D35;92 &<93R3= ;<94 ;5D B3= ; <3 9==@34 ; =8< 2H56.? <434 < D5; 7 ;V 89 2 = ;92=8 8:3=3 3GD3==3= 2 3D37C3< $ C5; 7 92H 8:3 &&9D3<= & < 2 8 >33 92H ;2 363 @ 2 8:3 7 32 ;24 92892H @8 8:;8 T 2 8 C<;B3<6 ;5 23 C@8 ;8932D3 ;24 D 2=8;2D6 @243<&;89H@3 ;24 :;94.=:9 ?3<3 7 9598;<6 B9<8@3= 2& <8@2;8356 =@D: ;<H@7328= :;4 598853 3&&3D8 2 8:3 89<34 ;24 =@<56 <;2> ;24 &953, :92H= ?3<3 3<3 5 2H 8 H< ? 7@D:? <=3,

T :3 92&;28<6 ;= ?3 :;B3 =332 ;DD 7 59=:34 8:39< 7;<D: 8 32;B3283 ?98: @8 7 53=8;89 2 ;24 ;55 92D5@492H 8:3 <3;<H@;<4 ?3<3 ;D< == 8:3 =5;C6 8:3 8?3286.=3B328:; ;H38A= D;B;5<6 : ?3B3< :;4 ; 7@D: 7 <3 3GD9892H 8979 3 2 8:3 5;=8 8? 4;6=, 92492H 8:;8 :3 ?;= 2 8 ;88;D>34 @58 C3H;2 8 C3=89< :97=35& 2 8:3 8?3286.=9G8:K :3 =328 <H3=A= 4<;H 2= ;&83< 8:3 <989=:; <7 6 92 8:3 49<3D89 2 & ;6 <H; ? :953 ?98: <;2D3=D:9A= D;B;5<6 ;24 8:3 ?: 53 &:9= 92&;28<6 :3 7;<D:34 C6 8:3 49<3D8 <;4 2 =8 <H; 69; 8:3 C<94H3 & ;2=9 ;,

<H3=A= & @< <3H97328= ?3<3 92 8 @D: ?98: 8:3 <3;<H@;<4 & ;H38A= :@==;<= 2 8:3 8?3286.=9G8: ;24 8?3286.=3B328: C@8 8:36 ?3<3 2 8 8:3 256 < 8:3 7 =8 97 <8;28 32397 93= ?: ?3<3 2 ? =8<9B92H 8 4<9B3 92 <3A= D;B;5<6 =D<332, :3 ;4B;2D34 H@;<4 & 8:3 7 3< <A= ;<76 :;4 X@=8 D 73 @ ;24 &9<=8 5C3<8A= C<9H;43 & 36A= D < = ;24 8:32 8:3 D;B;5<6 & 8:3 %@;<4 C3H;2 8 <3== 92 @ 2 ;H385 ;: @==;63A= 4<;H 2= ;9H9B34 2 8:3 =D323 ;598853 5;83<, 8 9= ;= 532494 83=897 29;5 8 8:3 ?;6 92 ?:9D: 8:3 <989=:: <=3732 ?3<3 :;24534 8:;8 8:36 :354 8:39< ?2 & <8:<33 4;6= ;H;92=8 23;<56 8<9 53 & <D3= 2 ;& 28 & 8:9<86 7953= C3883< D3<89&9D;83 D @54 C3 H9B32 8 8:37 8:;2 8:3 &;D8 8:;8 8:3 7 3< < 3=897;834 8:37 ?:32 8:3 &9H:892H ?;= B3<;8 L ### <N ###=;C<3=8:39< <3;5 & <D3 C392H 256 $ L##, 3 ?< 83 8 92 ;7 7328 & D:;H<92 ?:32 <3A= ;<76 :;4 X@=8 3=D; 34 &< 7 :97 = 8:;8 :3 ?;= 2 8 ;8 ;55 92D59:0 8

* :3 <32D:494 ? <=3 ;=8:36 C@<28 8:3 ?: 53 D;=853 ?:32 8:36 DD@ 934 98 4@<92H 8:3 &9<=8 4;6= &8:3 23?63;<, @8 8:;8 9= 2 X@=89&9D;89 2 & <8:3 D 24@D8 &8:3 <98C ; <;43=D<9 89 2 &8:3 4;7;H3 4 23 =33 <7=C6 99, #$ #I,

1* %323<;5 <43<9==@34;8 32;B3283 2 3D, $,

9B3 <3H97328= 0 8: #8:;24 N8: @==;<= M8: 9H:8 <;H 2 Z I<4 0;%, ,P ?3<3 C392H <3==34 C6 8:9<8332 <32D: <3H97328= & @< 3;D: & P<H3=A= ;24 ; : @==;63A= 8? & 5C3<8A= ;24 8:<33 &8:3 %@;<4,

2 $

LM A E /&<J

3G;HH3<;83 8:39< 2@7C3<= ;24 ;= ; 7;883< &&;D8 <;834 8:3 92&;28<6 8 5 ?,

@8 @243< 8:3 ;479<;C53 53;492H &;H38 8:3 <989=:D;B;5<6 :354 98= B2 92 3B3<6 49<3D89 2, <3 ?;= 2 8 3G;HH3<;892H ?:32 :3 (B< 83 2 8:3 8?3286.39H:8:8:8 T8:36 :;B3 C8;9234 C6 8:39< = 9<98 ;24 3283< <9=3 ;2 ;=D32432D6 B3<8:3 <32D:?:9D: 2 8:92H C@8 H<3;8 =@ 3<9 <986 &2@7C3<= 2 8:39< ;<8D;2 H38 8:3 C3883< & :3 M8: 9H:8 <;H 2= 8@<234 C;D> 8 D53;<8:39< <3;< =9G 897 3= 2 3D37C3<$;24 2 3;D: DD;=9 2 4< B3 92 8:3 53;492H =J@;4< 2= &8:39< @<=@3<= ?98: =@D: 3&&3D8 8:;8 8:36 =3D@<34 8:37=35B3= ;2 @27 53=834 <38<3;8 & <8:3 23G8 &3? 7953=, 8 23 D:;<H3 23;< /;532D9;43 2 -@;2 ;8< &8:9<86.39H:8 =;C<3= &8:9= <3H97328 D:;<H34 ;<32D:=J@;4< 2 & # 732;24 C< >3 8:< @H:8:37 >95592H 8?35B3 ;24 D; 8@<92H 8?3286, :3 #8: @==;<= ?:953 &32492H && <H3=A= 4<;H 2= 23;< ;6 <H; & @24 8:;8 ;<3H97328 &8:3 59H:8 D;B;5<6 & 36 :;4 H 8 928 8:39< <3;< ;24 :;4 4<;?2 98=35& @ 2 ;<9=92H H< @24 &5;2>92H 8:3 :9H:.< ;4, :;<H92H @ 8:3 =5 3 ;24 B3< = 95 433 92 8:3 =5@=: &:;5&.735834 =2 ? 8:36 C< >3 8:< @H:8:3 32376A= 5923 ;24 H 8 &&92 =;&386 ?98: ## <9= 23<=, B3<6 23 &;H38A= &9B3 <3H97328= :;4 98= &@55 =:;<3 &89H:892H 2 8:3 8?3286.=9G8: ;24 8?3286.=3B328: 638 8:36 D5 =34 92 2 8 32;B3283 92 39%&3D8 <43< ?98: 92=9H29&9D;28 5 ==3= ;24 3G@5892H 92 ;D 7 5383 D 2V =D9 @=23== &8:39< =@ 3<9 <986 8 8:3 32376A= : <=3, 92D3 8:3 =8;<8 &< 7 ;5;7;2D;8:36 :;4 92 8?35B3 4;6= 8;>32 2 53== 8:;2 ## <9= 23<= C3=943= 92&59D892H D 2=943<;C53 5 ==3= 92 >95534 ;24 ? @2434 2 8:3 <32D:, :36 :;4 =8955 23 7 <3 =@DD3== C3& <3 8:37 3<3 8:36 & @24 8:37=35B3= D 2437234 8 D 7 ;<;89B3 @=3V 53==23== ;7 2H 8:3 7 @28;92= &%;59D9;,

2 8:3 8?3286.39H:8: C3<8 <;?&@<4A= C<9H;43 :;4 ?;9834 C3:924 92 8:3 7@4 ;24 G;92 4<;?2 @ 92 &< 28 &8:3 C<94H3 &;=8< % 2R;5 T=8;2492H & <7 ;26 : @<= ?98: ;<7= =834 ;24 =8;<92H 8:3 <32D:D;B;5<6 92 8:3 &;D3 ?:953 8:3 ?;83< ;D8@;556 <;2 @8 &8:3 7@RR53= &8:39< 7@=>38= / 8 5;=8 @<:@==;<= <389<34 ,;24 <;?&@<4 C53?@ 8? ;<D:3= &8:3 C<94H3 ?:32 ;H38 :;4 ;==34 B3< ;24 7 B34 C;D> 2 32;B3283 ;&83< = 73 8<9&592H =>9<79=:92H ?98: 8:3 D;B;5<6 &8:3 7 3<9;5 %@;<4 ?: :;4 D 73 @ 92 & <D3 ;24 8<934 8 9283<<@ 8 :9= ? <>, :3 9243.

* <38 ;=853<3;H:&< 7 32;B3283 3D,$M,

* : # $; ,

&;89H;C53 <989=:: <=3732 53&8 9D>38=;55;52H8:3<9B3< 23;D:=943 &8:3C> >32C<94H3<3;46 8 <3 <8;24 =3;26;8837 8 8 D< ==,

&83<<3=892H& <;4;6 92 32;B3283 <3::4=328 28:349B9V =9 2 &<;=3<;24 38 =8 <H;C6 8:3:9H:?;6 8:< @H: ;23R;: 3 49B9=9 2 &;9<4 7;<D:92H&< 7/;532D9;C6 B955;92 @= D< ==.<;4=D 2B3<H34 2 8:3=;73 928?:3<3 8:3 8:<33 D < = 738 @ 2 3D37C3< $",: 39< 7;<D:?;=?: 6 @27 53=834 C6 8:3 <32D:?:?3<3 C392H =@DD3==&99556:354C;D> C6 <3A=<3;<V H@;<4@243<8:38? ;H38= 8:3D;B;:6H323<;5;24 8:3D 77;243< &8:3<3=3<B3 49B9=9 2 ;24 C6 <;?&@<4;24 58 2A=59H:8 C<9H;43=, 2 8:3=;73 7 <292H 8:;8 8:3 7;92 C 46 9.3;D:34 =8 <H;8:3 92&;28<6 &8:3 <3;<H@;<4 7;<D:34 @8 &32;B3283 53;B999H C3:924 256 8:3:<=37 32?:?3<3 ?;8D:92H ;55 8:3 & <4=?98: 8:39< =@ <8=8:<33 7953 C3:924 92 8:3 8 B2 &32;B3283, 3392H 8:;8 ;55 8:3 92&;28<6 :;4 49=; 3;<34 3&3CB<3. 3=2 @3883=?:? D 77;2434 8:3 D;B;5<6 &8:3 %@;<4 8: @H:8 98 :9H:89 73 8 <3== C36 24 8:3 =5;K 98?;= ;C=@<4 :3 8: @H:8 8:;8 8:3 7;== &<32D:: <=3732 2 ?H;8:3<34 =983 8:3 C> >32C<94H3 &;=8< % 2R;5 =: @54;55 ?8:37=35B3= 8 C3 >3 8 92 D:3D> C6;73<3 D:;92 &B343883= @2=@ <834 C6 92&;28<6 <H79=, DD <4V 92H56:3=3;<D:34 &<& <4=;24?:32 23?;= & @24;&3?:@249)34 6;<4= &< 7 8:3 C<94H3 D< ==34 98;8 8:3:3;4 &8:3 & @<=J@;4< 2= &8:3 D:;==3@<= 8:3 %@;<4 C38?332 ##;24 N##=;C<3= , :3 <3=8 &:9= 8< =.';&83<B;9256 =33>92H & <8:3<;==;H3=?3<3 ;C @8 8 & 55 ?:97, :3 7 7328 8:;8 :3::4H 8 B3<8:3 ?;83< 3&3CB<3 & @24:97=35 ?98:=8 4 C6 8:3 9D>38=7;9256 C35 2H92H 8 8:3 M8:9H:8 <;H 2=?:?D;73 <9492H 92 &< 7 8:39< =8=;5 2H 8:3 <9B3< 8 7;= 8:37=35B3= =983 8 :97, :32;C @8 I# 732?3<3D 553D834 97 43< 5 235 8?;6 8:36 B328@<34 8 D:;<H3 8:3 53;492H ,=J@;4< 2= &8:3 D:;=V =3@<= &D @<=3 ?98:924 9&&3<328 =@DD3==, &83<<389<92H ;?&3?: @24<34 6;<4= 7 <3 8:36?3<3 X 9234 C6 ;8< &8:3 I<4 <;H 2= &8:3 O92HA= %3<7;2 3H9 2 @243< ;X < @<H?3435 ;24 ;H;92 8@<234 8 &9H:8, 8 8:9= =3D 24 D5;=:8:3 &< 28 5923 &8:3 @<=@3<= ?;= C< >32 & <;7 7328 ;24 8:3 4<;H 2=?: :;4 C@<=8 8:< @H:8:3 H; :;4 ;2;<< ?3=D; 3 &C392H =@<< @2434

)' ; 53 2;, &'* &$ LN$IP=;6=8:;8 8:3 97328 &D:;==3@<=?;= 256 I##=8< 2H';24 8:39<5 == 256 =9G86, @8 8:3= 532494 <3H97328= &8:3 %@;<4 D;B;5<6 :;4 2 8 638 &;5532 8 8:9=7;55 2@7C3< &=;C<3=,

;24 D; 8@<34 C6 8:3 =3D 24 5923 C@8 &92;556 & @H:8 8:39< ?;6 @8 &8:3 ?98:2 .H<3;8 5 ==, :;<53= 83?;<8 8:39< C<9H;493< 2 ?D;73 @ ;24 <;55934 8:37 & < 8:3 =3D 24 897 3K :3 <389<34 8 ?;<4= 8:3 8 ?2 92 H 4 <43<?98: @8 ;55 ?92H :97 =35& 8 C3 D ?34 C6 3&3CB<3A= <; 94 ;4B;2D3 & < :3 >23?8:;8 =@ <8= B3<3 ;8 :;24, <4 ;H38?;<234 92 H 4 8973 :;4 4<;?2 @8 8:3 #8: @==;<= @243< D B3< &8:3 : @=3= &8:3 = @8:3<2 =@C@<C &32;B3283, 3?;9834 8955 8:3 D:;==37.= 4<3?J@983 23;<8 :97 ;24 ?3<3 8 <37 83 &< 7 8:3 & <4 8:36 :;4 D< ==34 8 C3 ;C53 8 <389<3 ?98: 3;=3K 8:32 :3 =@443256 =;55934 @8 &< 7 :9= D B3< ;24 =? 34 4 B2 @ 2 8:37, :3 9D>38= ;8 8:3 =;73 7 7328 B:3353 4 ;C @8 D:33<34 ;24 D:;<H34, :3 3237 6 2 ?=59H:856 @82@7C3<34 & < 8:3 #8: ?3<3 &@556 L #=;C<3= =8< 2H ;24 8:3 9D>38= ;8 53;=8 $## 7;43 ;H 4 &9H:8, <989=: ?9823== C=3<B3= 8:;8 8:3= f T &923 C9H &355 ?= 92 &@< D; = ;24 5 2H H<332 D ;8=A B3<3 &;< C3883< 8:;2 8:3 5923 <3H97328= ?98: ?:9D: 8:3 :@==;<= :;4 :98:3<8 C332 32H;H34, @8 92 ;& D B 792@83= 8:36 ?3<3 C< >32 ;24 D:;=34 & < 8? 7953= <9H:8 C;D> 8 8:3 & <4 C6 ?:9D: 8:36 :;4 D< ==34, 3&3CB<3 :97 =35& B;= D; 8@<34 C6 ; <9B;83 &8:3 #8: 2;734 %<9=4;53 :9= B @2434 : <=3 :;B92H <3&@=34 8 =?97 8:3 <9B3< 98: :97 8:3<3 ?3<3 8;>32 8? D; 8;92= ;24 =3B3286 @2? @2434 <9= 23<=, :3 D:;==3@<= 53&8 &9&86.&9B3 732 43;4 <:@<8 @ 2 8:3 &9354 ;24 7;26 &8: =3 ?: H 8;?;6 ?3<3 7@D: D@8 ;C @8 :3 <989=: D;=@;5893= ?3<3 &9&86 ;57 =8 ;55 &< 7 8:3 732 ?: :;4 &@<29=:34 8:3 9D>38=) & < 8:3 #8: =@&5 3<34 598853K @<H?3435 B: :;4 534 8:3 %3<7;2= &8:3 M<4 0 ,%, , ?;= 8:3 256 &&9D3< :@<8

:3 <372;28 &8:3 D:;==3@<= D< ==34 8:3 <9B3< ;24 B3<3 97 73V 49;8356 =@ <834 C6 8:3<3 <3H9732 8= B:0;&83<&;9592H 8 &924 ;2 8:3<& <4P:;4 D 73 4 B2 8 8:;8 ?:9D: 3&3CB<3:;4 @=34,

* 3?;= =328 8 2H5;24 ;24 5 2H 59B34 2 ;< 53 ;8 :35832:;7, :953 :3?;= 8:3<3 :;<53= /;@H:;2 D;5534 2 :97 ;24 H 8&< 7 :97 = 73 B;5@;C53 92& <7;89 2 ;C @8 8:3 &9<=8 =93H3 &;<;H ==;?: =3 :9=8 <6 :3?;= 8:32 ?<9892H, 2 M 3&3CB<3 C< >3 :9= ;< 53 ;24 3=D; 34 8 <;2D3 ?:3<3 ; 53 2 ?35D 734 :97 ;24 <3=8 <34 :97 8 D 77;24,

* ;<<36 8:3 7 3< <A= =@<H3 2 D 7 732892H 2 =;C<3.? @24= =;6= 8:;8 2 53== 8:;2 =3B3286 ? @2434 &8:3 D:;==3@<= D;73 @243< :9= D;<3 2 8:9= DD;=9 2,

+ 2 -;73= <3A= C >8:9= H;55;28 &&9D3< ; 3;<= @243< 8:3 2H59=: 49=H@9=3 & ;X < ;H?355 @243< ?:9D: 494 2 8 ;8 &9<=8 <3D H29R3 :97 0 , M P, 4456 32 @H: 4;7 3;53 7;>3= 8:3 =;73 79=8;>30 , "P,

: 36 = : ? 34 = 7 3 =9H2= & ; 883 7 892H ; =3D 24 ; == ; H3 C@8 <4 ; H38 8@<234 @ 2 8 : 3 7 8 : 3 H@2= & ? 2 7 ; 2A= : <=3.C ; 88396 ? : 9D : : ; 4 X@=8 H ; 55 34 @ &< 7 32 ; B3283, &83< 8? < 7 94= 8 : 3 323 7 6 < 43 && : ; =8956 &< 7 8 : 3 <9B3< ; 24 &355 C ; D> 925 ; 24, : 36 : ; 4 <3D39B34 =@D : ; = : ; < 53== 2 8 : ; 8 8 : 36 ; 55 ? 34 8 : 3 <989= : D ; B ; 5<6 8 <38<3 ; 8 ? 98 : @8 7 53=8 ; 89 2 92 8 : 3 ; &83<2 2, ; 53 2 D 2= 534 : 9 7 =35& ? 98 : ? <9892H 8 : ; 8 8 : 3 <989= : ?3 <3T &5692H 92 ; 29DA ; =8 ; 83 7 328 ? : 9D : 8 : 3 D9<D@ 7 =8 ; 2D3= : ; <456 =33 7 34 8 X@=89&6 ; 24 H ; B3 ; 2 3G ; HH3< ; 834 ; DD 7 98 &8 : 3 49= <43<= ? : 9D : 8 : 36 : ; 4 D 7 7 98834 ; 8 / ; 543< ; = ; 24 32 ; B3283 8 ? : 9D : : 3 ; 4434 ; 2 9 7 ; H92 ; <6 @8< ; H3 ; 8 3 2 ` , @8 8 : 3<3 9= 2 7 <3 8 ; 5> & <3A= D < = C392H =@<< 9 7 434 B:3<3& <3 98 =@443256 = : <92>= 92 8 : 3 7 3< <A= 3=89 7 ; 89 2 C392H 2 5 2H3< IN ### =8< 2H C@8 256 T $ ### 92& ; 28<6 ? 98 : L ### < N ### : <=3,A 3&3CB<3A= ; && ; 9< : 3 &9) ; 2>56 B234 B:32 ? <9892H 8 0 92H - =3 : ? ; = 49=H@=892H K T C6 3B3292H : ; 4 M ### : <=3 2 8 : 3 = 8 C@8 8 : 3 323 7 6 ? ; = H 23 / ; H38 924334 ? ; = = 3&&3D89B356 H 23 8 : ; 8 8 : @H : <32D : D ; B ; 5<6 C6 8 : 3 8 : @= ; 24 D< ==34 8 : 3 & <4 8 : ; 8 29H : 8 8 : 36 D @54 4 2 8 : 92H, 24 <; ? &@<4 : ; 4 ,= 8 : < @H : 56 43=8< 634 8 : 3 C<94H3 &= ; =8< % 2R ; 5 : 3 : ; 4 C5 ? 2 @ 8 : 3 D328<; 5 93< ; 24 2 8 7 3<356 D@8 8 : 3 D< ? 2= &8 : 3 ; <D : 3= 8 : ; 5 92& ; 28<6 ; 24 H@2= D @54 2 8 D< == 8955 8 : 3 8 : @*8938 : , 8 ? ; =* 256 2 8 : ; 8 4 ; 6 8 : ; 8 8 : 3 : 3 ; 4= & 36A= D < = ; 24 &8 : 3 7 3<9; 5 %@ ; <4 D ; 7 3 @ K ; 9==3A= 49B9=9 2 ? ; = =8955 & ; < C3 : 924 ; 8 < , 55 8 : ; 8 8 : 3 <; 94 & <D34 7 ; <D : 3= &8 : 3 7 3< < : ; 4 C< @H : 8 : 97 ? ; = 8 : 3 <9B953H3 & ; ==9=892H ; 8 ; H38A= 43 ; <8@<3 ; 24 & 9D>92H @ 92 32 ; B3283 = 7 3 ; C ; 24 234 D ; <8= ? : 9D : <3 : ; 4 D ; @=34 8 C3 C< >32 ; &83< C97 292H 8 : 39<D 2832 8=, ; 53 2 =89 D 2= 534 : 9 7 =35& ? 98 : 8 : 3 943 ; 8 : ; 8 98 ? ; = ==9C53 8 : ; 8 @58 7 9H : 8 : ; B3 C332 7 <3 & <8@2 ; 83 8 : ; 2 : 9 7 =35& ; 24 7 9H : 8 3< : ; = ; &<3 ; 46 C3 ; 88 ; D>92H 8 : 3 2H59= : ; 8 =8 <H ; , : 9= ? ; = 2 8 8 : 3 D ; =3K ; &83< 53 ; <292H 8 : ; 8 X<3 : ; 4 49= ; 3 ; <34 &< 7 : 9= &< 28 8 : 3 @>3 & ; 57 ; 89 ; : ; 4 8 ; >32 8 : 3 < ; 4 ; : ; H@2 ; 2=955 ; ; = 8 : 3 = : <83=8 5923 ? : 9D : ? @54 C<92H : 97)8 =8 <H ; 8 : 3 5 ; D3) , ! + ! L N$I 0 ; 53 2 8 - =3 : 923 &< 7 32 ; B3283 3D, I P T 3= 2H5 ; 9= &@9328 @B ; 283=,A * , ! + ! L N$N 0 ; 53 2 8 0 92H - =3 : P, - =3 : 9= 8 92=3<8 92 8 : 3 ; 4<94 ; 3<= 53883<= ? <98832 &< 7 8 : 3=3 8 : <33 5 ; D3= ? 98 : 43=D<9 89 2= & 8 : 3 C<9H ; 24 ; H3 <; D89=34 C6 8 : 3 2H59= : T 2 ? 3 2 95= 28 D : ; ==3 53= 7 923=,A 2H59= : 8< = : ; 4 3B3< C332 ? 98 : 92 8 : 9<86 7 953= & 3 2^ * T 3883 ; && ; 9<3 7 A ; D : 84 @23 = 9G ; 28 ; 9@3 43 73= D : ; ==3@<=, / @= =3283R D 7 C932 D35 ; 7A ; 383 43= ; H<3 ; C53K 09C94 .P,

? : 3<3); 26 ; < 7 6 9283249 2H 8 43&324 % ; 59D9 ; ? 9-4 7 ; >3 98= &9<=8 =8 ; 24, : 9= D : 9D3 C< @H : 8 : 97 @ 2 8 : 3 8< ; D>= & ; 7 ; 2 ; A= ; 9A 7 6 2 8 &8 : 3 <989= : , : 3 ; <J@9= ? : 32 <3 <389<34 : ; 4 7 B34 C ; D> 2 3 2 C@8 : ; 4 =328 8 : 9= ; 556 ; 73==; H3 8 8 : 3 3&&3D8 8 : ; 8 : 3 D @54 2 8 ; DD3 8 8 : 3 =@HH3=89 2 8 7 ; >3 8 : 3 =8@<9 ; = : 9= C ; =3 ; 24 ? @54 C3 & <D34 ? : 32 8 : 3 323 7 6 ; 4B ; 2D34 8 X 92 8 : 3 <989= : ; 8 =8 <H ; 8 ? ; = ; C= 9@8356 9 7 ==9C53 : 3 = ; 94 8 <3 ; 9< 8 8 : 3 =89 7 9 ; = & < 8 : 3 ; == & ; X ; <3= 8 : 3 256 D ; D : .< ; 4 8 : 98 : 3< ? ; = 9 7 ; == ; C53 2 ; DD @28 &8 : 3 =2 ? * ; ; 7 ; 2 ; 53&8 ; = ; <3 ; <H@ ; <4 ; 8 8 : 3 ; .9 7 <8 ; 28 C<94H3 & ; 2=955 ; : 9= $24 9B9=9 2 I ###=8< 2H ? 8 : 8 ? H@2= ; 28<; <6 8 <3A= ; 4B9D3 : 3 ? @54 2 8 C5 ? @ 8 : 3 C<94H3 H9B92H ; = : 9= <3 ; = 2 8 : ; 8 8 : 3 =5 ; ? ; = & <4 ; C53 92 =3B3<; 5 5 ; D3= 92 98= 9 7 7 349 ; 83 239H : C @< : 4, : 9= ? ; = ; C5@243<5 C@8 8 : 3 &&9D3< 92 D 7 7 ; 24 &8 : 3 $24 9B9=9 2 D 7 7 98834 ; H<3 ; 83< 23 C6 4< ; ? 92H @ : 9= 7 ; 92 C 46 92 &< 28 & 8 : 3 C<94H3 ; 24 2 8 C3 : 924 98 ; <3 38989 2 & @3=8 ; A= 54 3<< < ; 8 ; C3R 2, @58 494 2 8 D 7 3 92 D 28 ; D8 ? 98 : 8 : 3 ; 29= : <3 ; <V H@ ; <4 8955 & @< 4 ; 6= ; &83< : 3 : ; 4 53&8 ; <<9 2K = : 3 ; B6 : ; 4 C332 8 : 3 <; 92 ; 24 = B953 8 : 3 < ; 4 8 : ; 8 98 8 > ; 9 7 &< 7 8 : 3 8 ? 3286. =9G8 : 8 : 3 8 ? 3286. 2928 : 8 D B3< 8 : 3 & <86. &9B3 7 953= C38 ? 332 ; <<9 2 ; 24 ; 2=955 ; , @8 2 8 : 3 7 <292H & 3D3 7 C3<) I # : 3 43 : B3<34 : 9= ; 88 ; D>K ; 8<3 7 324 @= D ; B ; : 6. D : ; <H3 C6 8 : 3 D : ; ==37 A= ; 24 4<; H 2= & <; 2D3=D : 9 C< >3 8 : 3 ; 29= : 5923 ; 24 @<=@3<= ; 24 @<=@34 ? 328 355. 7 3 B3< 8 : 3 C<94H3 ? : 9D : ? ; = 2 8 43&32434 & < ; 7 7 328, : 3 <32D : D ; 8@<34 ## 732* ? : ? 3<3 D@8 && &< 7 <3. D< ==92H 8 : 3 <9B3< 8 ? H@2= ; 24 8 ? = 8 ; 24 ; <4=, 3 ; <92H &8 : 9= 49= ; =83< ; 7 ; 2 ; ; 8 2D3 3B ; D@ ; 834 3 2 ? : 9D : @58 =39R34 2 8 : 3 8 : 9<86. &9<38, : 3 5 ; D3 : ; 4 C332 : ; =8956 & <89&934 ; 24 8 : 3<3 : ; 4 C332 7 @D : 8 ; 5> &8 : 3 ==9C95986 &43&32492H 98 S C@8 ; 8 8 : 3 &9<=8 =@7 7 2= 98 3234 98= H ; 83= ? 98 : @8 &9<92H ; = : 8, : 3 ; <J@9= 53 ; B92H $ ###=9D> 92 8 : 3 : = 98 ; 5= ; 24 ; D 2=943 < ; C53 ; DD@7 @5 ; 89 2 &8 4 92 : 9= 7 ; H ; R923= &355 C ; D> 2 =8 <H ; 7 @D : 8 8 : 3 49=D 28328 &8 <3 ? : : ; 4 2 8 43=9<34 8 =33 : 97 92 8 : ; 8 49<3D89 2, @58 ; 8 3 2 ? ; = 256 8 ? 3286. &9B3 7 953= &< 7 =8 <H ; .K : 3 ? ; = 2 ? C@8 23 7 ; <D :)&< 7 <3A= <33@ H@ ; <4 ; 24 92 D5 =3 8 @D : ? 98 : 8 : 3 7 3< < ? : D 792H @ &< 7 8 : 3 = @8 : <3 ; D : 34 ; ; 23R ; 2 8 : 3 = ; 73 4 ; 6 8 : 3 5 ; =8 &8 : 3 54 63 ; < M#M,

673 ; 8 <3 &< 7 ; 7 ; 2 ; A= D ; 7 ; 8 ; 2=955 ; 3D, $,
[C94,

93 49B9=9 2= & ;9<4 3 ;24 <;=3< ;= B3 :;)3 ;5<3;46 =332 :;4 <3;D:34 =8 <H; 2 8:3 8?3286.2928:8:3 <3=39?3 492=9 2 ;24 8:3 59H:8 C<9H;43=0;&83<;7 =8&;89H@92H 7;<D:&< 7 32;B3283P 2 8:3 8:9<8938:?:953 8:3 D;B;5<6?;=;=;5?;6=8 8:3 <3;<>33 .) 92H C;D> 8:3 ;4B;2D92H =J@;4< 2= & 3==93<3=; :@= 2 8:3 8:9<8938:8:3 2H59=: ;24 ;29=:;<7 93= B3<3 D 2D328<;834 ;8 ' =8 <H; B98:3B3<6;B;95;C53 7;2 <3=328 8:3 <989=:=8955 $ ### =8< 2H$ & <8:36:;4=@&&3<34598853 92 8:3 &9H:892H ;24:;4 2 8 638 C3H@2 8 =8<;HH53 C@8 7;2; B98: 2 7 <3 8:;2 " ### < # ### &8:3 2 792;5 $$ ### ?:9D:::;4C332=: ?2 92:9=<387 2= &832 4;6= C3& <3, 9= $24 9B9=9 2 :;4 C332 <;D89D;556 43V =8< 634 ;8 ;2=9 ;K :3 :;4 53&8 $ ### =9D> ;8 3 2 ;24 7;26 7 <3\:;4&;5532 @8 &8:3 <;2>= 92 8:3 7;<D:&< 7 8:;8 5;D3 = 7 3 C3D;@=3 8:36 B9=:34 8 43=3<8 8:39< D 5 @<= C@8 7 <3 &<. 7 D 54 49=3;=3 ;24 7 9=3<6$ & <8:3 ;<76 B;= 2 8 7 3<356 :;5&2;>34 C@8 92&3D834 ?98: ; 7;59H2;28 86 :@= &3B3< ?:9D: ;= 7;>92H 83<<9C53<;B;H3= 92 98= <;2>=

<3 :;4 8 54 ; 7;2; 2 8:3 8 B3286.& @<8:8:;8:3: 34 8 7;>3 ;=8;24 ;8 =8 <H;, :3=;73 =8;837328 :;4 C332 ;==34 < @24 8:3 ;<76 ;24 :;4 >3 8 @ 8:3 = 9<98= &8:3 732 8 = 73 3G8328 8: @H: 7;26 :;4 C3H@2 8 C3593B3 8:;8 T <3 B @54 23B3< &9H:8 :39.3 ?3<3 7;H;R923= && 4;8 =8 <H; ;24 7@D: 7 <3 D 2=943<;C53 23= & 7 9598;<6 3J@9 7 328K ;5;<H3 D 2B 6 & =: 3= C5;2>38= ;24 7@=>38= :;4 5;8356 D 7 3 92 &< 7 <@22; ;24 ;9<4A= :3;B6 C;HH;H3 :;4 C332 =8;D>34 92 8:3 5;D3 C3& <3 :3 7;<D:34 & < ;:;H@2, :3 8 ?2 98=35& ?;= =@<< @2434 ?98: ;2D9328 ?;55= ;24 :;4 = 73 ==9C959893= &43&32D3K X@=8 C3:924 98 <9=3= 8:3 &9<=8 <;2H3 &8:3 % ;59D9;2 7 @28;92= ; =833 ;24 & <V C9449 2H D:;92 93<D34 256 C6 8:3 8 B ;==3= ?:9D: D 28;92 8:3 54

*]K ?9823==3=;H<33 8:;8 8:3 ;<76 & %;59D9; ?;= 92 ; 7 =8 49=8<3==92H D 24989 2, 2 :9=;<76 ?;= 5983<;556 :;5&2;>34 ;24 :;5&=8;<B34 A =;6= 4;7 3;53,) <&9;59H2;28 &3B3< B;= <;H92H ;7 2H 8:37 ;24 5 2H &;89H@3= <9 A;89 @ ;24 8:9= 7 <8;5 49=837 3< 7;43 8:37 ; 3;< 59>3 3D8<3= 9==@92H &< 7 ; : = 98;5 <;8:3< 8:;2 ;2 ;<76 O , M P, T , ,A 4 D<9:3= 8:37 ;= 2 5 >92H 7 <3 59>3 ;5;<H3 C 46 & 3;=;28= 4<9B32 &< 7 8:39< : 73= ;24 92 ?;28 &3B3<68:92H 8:;2 ; ;<3H@5;< ;<76 O , NNP, 593 732 &98 & < =3<B9D3 ;<3 43=D<9C34 ;= C392H 2 7 <3 8:;2 N ### =8< 2H,

* T 3 ;55 ?9=:34 98 C@8 2 23 C3593B34 98 A B<983= T , ,A T 3 :;4 C332 8 54 8:3 =;73 ;8 32;B3283 C@8 @< 7 B37328 :;4 2 ; 3;<;2D3 &;<38<3;8 92 B:9D:?3 ?3<3 8 &;D3 ;C @8 ;24 7 >3 ;=8;24K 98 B;= 7 <3 59>3 ;=:;73&@5 &59H:8 A O , H P, :9= @24 @C83456 ?;= 8:3 <3B;9592H B93?92 8:3 <;2>=,

L' A ' ' ' ' E /&' I

;24' 8:3' 23?' :9H:.< ;4=' 8 ' <@22;,' :3' & <73< 8:3' =: <83<' C@8' C6' &;<' 8:3' 7 <3' <@HH34 9=D;5534' 8:3' 43&953' &' 2D3C;4 2$ 8:3' 5;883< 5 2H3<;24' 3;=93< 9=' 8:3' 43&953' &' ;2R;2;5,

:3' J@3=89 2' ?;=' ;8' 2D3' <;9=34' ;=' 8 ' ?:38:3<' 8:3' =989 2' 92' <3;<' &' =8 <H;' =: @54' 2 8' C3' =3<9 @=56' 43&32434,' :3' 8 ?2' 98=35&' ? @54' 2;8@<F-56' :;B3' 8 ' C3' H9B32' @ ' 9&' 8:3' <32D:' D: =3' 8 ' <3==' 2' 92' & <D3$ C@8' 8:3' 8? ' 43&953=' 7 9H:8' C3' & <89&934' ;24' :354';H;92=8' B3<6' =@ 3<9 <' 2@7 C3<=,' ' 8@<2' $ ###' <989=:'8< =' @8' &' 8:37' ? 4' :;B3' C332';' B3<6' =3<9 @=' 8;=>' ;24' 8:3' ;29;<4=' 73;2?:953' D @54' :;B3' C332' @=34' & <' 49B3<=9 2=' 2' 8:3' 3237 6A=' &5;2>' ;24' <3;<,' ;' 7;2;' D;5534' @ 2' <3' ;8' 8:3' 7 29328' &' 8:3' 5;883<A=' ;<<9B;5' ;8' =8 <H;' ';24' < =34' 8:;8' 8:36' =:@54' X 92' 92' 43&32492H' 8:3' ;==3=,' ' H9B3' 8:37' @ ' 73;28' :3' =;94' 8 ' H9B3' @ ' ;5=' 8:3' H<3;8' @ 5;24' B;5536' C3:924' 8:37 8:3' /93<R ?:3<3' 5;6' :9=' ?2' 43 8=' ;24' :9=' ;<>' &' ;<89553<6' ;8' 2&3<<;4;' ';24' ?:3<3' <3' ;5=' ':;4' D 2=943<;C53' =8 <3=' ;24' 7;H;R923=' ;8' /955;&<;2D;,' :3' < =;5' ?;=' ?355' ? <8:6' &' C392H' 8;>32' 928 ' ;DD @28' ;24' ?;=&;<' &< 7' C392H ;=' ; 93<' D;55=' 98 T' ?9543<' 8:;2' 8:3' 4<3;7=' &' 2' U@9G 83^A' & <' 8:3' =989 2=' ?3<3' B3<6' =8< 2H' ;24' 8:3<3' ?;=' 2' D 2B329328' < @83' C6' ?:9D:' 8:36' D @54' C3' 8@<234,' :3' 256' 8:3<' ?;6' 928 ' %;59D9;' 8:;8' C6' @3C5;' 43' 32;C<9;' 9=' 2 8' 256' &;<;?;6' C@8';57 =8' 97 ;==;C53';8' 7 94?9283<' &< 7' 8:3' C;423==' &' 8:3' < ' ;24' 8:3' 433 ' =2 ?,' <3 B3<' 98' 53;4=' 2 8' 928 ' 8:3' 7 ;92' B;5536' &' 8:3' 92: ' C@8' 928 ' 8:;8' &' 8:3' ;73H;' 2' 8:3' <8@H@3=3' &< 2893<' &9A 7' ?:9D:' ;2 8:3<' =3<93=' &' 49&&9D@58' 43&953=' :;B3' 8 ' C3' D< ==34' 92' <43<' 8 ' H38' 928 ' 8:3' :3;<8' &' %;59D9;';' ;' 7;2;' 8: @H:8' 8:;8' 8:9=' < ;4' 79H:8' <;D89D;556' C3' 49=<3H;<434' ;=' ;2' 3537 328' &' 4;2H3<' 92' ;' -;2@;<6' D;7 ;9H2,

:3' =@HH3=89 2' &' 8:3' ;<J@9=' 43=3<B34' =3<9 :=' D 2=943<;89 2,' <3A=' <3;= 2=' & <' ;' =@7 7;<6' <3X3D89 2' &' 8:3' < =;5';<3' 2 8' =8;834' C6' :97' ;8';26' 532H8:' 3' ?< 83' 8 ' ;=853<3;H:' 73<356' 8:;8' 8:3<3' ?;=' 256' 8 ' 4;6=A' C<3;4' ;8' =8 <H;' 8:;8' :9=' 73;2=' &' D;<<9;H3' ?3<3' 7 35892H' ;?;6' C6' 8:3' 43;8:' &' 4<;@H:8' C3;=8=' ;24' 8:3' 43=3<89 2' &' 4<9B3<=' ;24' 8:;8' :3' &3;<34' 8:;8' 8:3' 3237 6' 7 9H:8' @=3' 8:3' < ;4' @ 2' :9=' &5;2> 9,' 3,' 8:3' @3C5;' 43' 32;C<9;' < @83 8 ' 8@<2' :9=' =989 2,' 3' @< =34' 8:3<3& <3' 8 ' &;55' C;D>' ;8' 2D3' 8 ' 8:3' D ;=8' ;=' &;=8' ;=' :3' D @54' ;24' 8<@=834' 8:;8' 8:3' <32D:' & <' ?;28' & 4' ?@54' 2 8' C3' ;C53' 8 ' & 55 ?' :97' &@<8:3<' 8:;2' /955;&<;2D;,' ' 8:3=3' <3;= 2=' 7;6' C3' ;4434' ;2 8:3<' ?:9D:' <3' D9834' 92' :9=' ' <3' 8 ' ;=853<3;H:' &< 7' =8 <H;' 3D,' I M#M,'

M##M]

D 2B3<=;89 2 ?98: ; 7;2; 8:;8 8:3 8< =<3J@9<34 <3=8 ;24 D @54 2 8 H38 98 92 8:3 C53;> =989 2=;C B3 =8 <H;

73 &8:3=3 <3;= 2=;G3 2 8 J@983 D 2B92D92HK 8: @H:8:3<3 ?3<3 256 8? 4;6=K <;89 2=;8 =8 <H;8:3<3 ?3<3 & @<8332 4;6=K ;8 /955;&<;2D;;24 5;<H3 43 8=::;4 ;5=C332 H;8:3<34 ;8 @H ;24 <@22;; :3=3 D @54 C3 <3243<34 ;B;95;C53 ?98:2 H<3;8 8< @C53 9& <3;5 323<H6 ?3<3 49= 5;634 & <8:3<3 ?);= =8955 0;= 8:3 49=;=83<= &8:3 <38<3;8 ?3<3 8 =: ?P;H 4 43;5 &?:33534 8<;2=V <8 ?98:8:3;<7 6, :3 &5;2>92H <;4 C6 @3C5;43 32;C<9;?;= 0;= ?3 :;B3=;94P= 49&&9D@58 ;24 =<37 83 8:;8 ;26 8@<292H D <= 8:;8 8<934 98 ? @54 C3 :3;<4 &5 2H C3& <3 98 C3D;73 4;2H3< @=, :3<3 ? @54 C3 H<3;8 5989D;5 ;4B;28;H3 92 D:3D>92H 2; ;<83 ;8 8:3 ;==3=3B32 9& 98 ?3<3 256 & <;?33> <832 4;6=, T <3 B3< 8 =: ?;C 54 &< 28 ? @54 <;9=3 8:3 = 9<98= &8:3 ;<76 ?: =3 H< ?92H 49= <43<= ?3<3 8:3 7;<>= &49=D 28328 ;8 8:3 <38<3;8 ;24 ?: =3 23 ?9=:?;=8 &9H:8:3 <32D:;= = 2;= ==9C53, =8 8:3 <3=8 ?:9D: <3 43D5;<34 8 C3 23D3==;<6 & <8:3 8< =8:9= D @54 =@<356 :;B3 C332 C3883< H9B32 C6 :;5892H 8:37 ;24 &&3<92H 8 43&324 8:3 ;==3=8:;2 C6 8;>92H 8:37 B3< 8:3 5 2H ;24 43= 5;83 <;4 8:;8=3 ;<;834 8:37 &< 7 <@22;; :3 3G 3<932D3= &8:3 23G8 353B32 4;6= D;2 :;<456 C3 D;5534 T <3=8,A

: @H:D53;<56 ==9C53 ;=8;24 C3:924 =8 <H;7;6 2 8 :;B3 C332 8:3 C3=8 59D6, ; 53 2 :;4 ;B;=8 & <D3 92 :;24 ;&83< :9= X@2D89 2 ?98: @58 ;24 :3 ?;=;4;2H3< @= & 3 8 C<;B3 3B32 92 =@D:;& <794;C53 =989 2 ;= 8:;8 ?:9D:8:3 <989=:DD@ 934, @8 98 9= 4 @C8&@5 ?:38:3< 8:9= &;D8 ?;= 8:3 D;@=3 & <3A= 4383<V 792;89 2 8 <38<3;8 8 8:3=3;, &?3 7;6 X@4H3 &< 7 8:3 8 23 &:9= 49= ;8D:3=:9= 8: @H:8 ?;= 73<356 8:;8 :3 :;4 <79=34 8 7;>3 ;49B3<=9 2 @243< =8< 2H <3==@<3 &< 7 <3<3 ;24 8:3 <3=8 8:;8 :3 :;4 =@DD3==&@556 D;<<934 @8 :9= 32H;H3 7 328 ;24 5@<34 8:3 7 3< <;24 8:3 C@5> &8:3 <32D:& <D3=;?;6 &< 7 ;4<94 ;24 8:;8 :3 D 2=943<34 :9=8;=>D 7 53834, 2 :9=53883< & 3D3 7 C3<I 8 ;=853<3;H:3 :;<>=C;D> 2D3 7 <3 8 :9= 54 43 <3D9;89 2 & 8:3 ;29;<4 8:36 :;4 8;>32 2 ;4B;28;H3 &8:3 D:;2D3 :3 :;4 H9B32 8:37 8:36 ?3<3 ;= ;8:389D ;= 3B3< :9=3G3<89 2= :;4 C332 ?;=834 ;24 = & <8:2 =<8892H :3 7;43 ;7 9=8;>3K :9=

:9= 53;9= 2 8 8 C3 & @24 92 ;26 & <3A= 49= ;8D:3=C@8 256 92 ;7 7;2;A= ;DD @28 &8:3 9283<B93?? :9D:3 =328 8 8:3 -@28;,
*2 C;24 234 &< 7 8:3 C3H92292H C6 3B3< :92H ;29=:?3 ?3<3 3J@;5 8 2 8:92H C6 @<=35B3=, < 7 ;43=9<3 8 4 ? :;8 D @54 7 43 8:3

M##M] / ' ' % '

8 : 3) S : 9<8938 : ' ? : 953' ; H38A=' <3=3<B3' ?98 : ' 8 : 3' 8? ' 59H : 8' C<9H ; 43=' & 55 ?34' 2' 8 : 3' 8 : 9<86 .&9<=8,' : 3' ? : 53' <989= : ' ; < 76' ? ; =' 2' 8 : 3' 8 : 3<' =943' &' =8 <H ; ' ; 24' ; D< ==' 8 : 3' ; ==3=' ? : 32' @58' ; 24' 2 ; ; <83A=' D 5@7 2=' D 2B3<H34' 2' ; ' ; 23R ; ' 939<' 92& ; 28<6' 494' 2 8' 3283<' =8 <H ; ' 8955' 8 : 3' &9<=8' 4 ; 6' &' 8 : 3' 23?' 63 ; < ' 8 : 9<86.5&39G' : @<=' ; &83<' <3A=' 7 ; 92' C 46' : ; 4' 3B ; D@ ; 834' 8 : 3' 5 ; D3,

' @8' 8 : 9=' 3 ; =6' 3=D ; 3' &9A 7 ' 8 : 3' 7 3< <A= ' D5@8D : 3=' : ; 4' C332' C @H : 8' ; 8' D 2=943< ; C53' = ; D<9&9D3=,' =8 <H ; ' ? ; =' D< ; 7 7 34' ?98 : ' =8 <3=' &' ; 55' >924=' ; =' ?3' : ; B3' ; 5<3 ; 46' : ; 4' DD ; =9 2' 8 ' 73289 2' K' & 4' ? ; =' 8 : 3' 256' 8 : 92H' 8 : ; 8' ? ; =' ; 8' ; 55' = : <8,' @8' 8 : 3<3' ? ; =' 2 8' =@&&9D9328' 8< ; 2= <8' 92' 8 : 3' 5 ; D3 ' ; 24' 8 : 3' <38<3 ; 892H' ; < 76' ? ; =' ; 5<3 ; 46' 5 =92H' ? ; H 2=' ; 24' C3 ; =8=' = ' &; =8' 8 : ; 8' 98' D 9<54' 2 8' D ; <<6' &&' 7 @D : ' &' 8 : 3' ; DD@7 @5 ; 834' 7 ; 83<9 ; 5' 8 : ; 8' 5 ; 6' C3& <3' 98,' ' : ; =86' ; 8837 8' ? ; =' 7 ; 43' 8 ' =3<B3' @8' 8 ' 8 : 3' 8< =' 8 : 3' 8 : 92H=' 8 : ; 8' D @54' C3' 97 7 349 ; 8356' @8959R34,' ; ' 7 ; 2 ; A=' ; 29 ; <4=' <3D39B34' =3B3< ; 5' 8 : @= ; 24' 23?' 2H59= : ' 7 @=>38=' 8 ' <3 5 ; D3' 8 : 39<' 495 ; 94 ; 834' ?3 ; 2= ' ; 24' ; ' J@ ; 28986' &' C5 ; 2>38=,' 73' &' 8 : 3' <989= : ' <3H97 328=' : ; 4' = : 3=' 9==@34' 8 ' 8 : 3<<85' C@8' @8' &' 73<3' : @<<6' ; 24' 79=7 ; 2 ; H3 7 328' =3B3< ; 5' 8 : @= ; 24' ; 9<=' 7 <3' ?3<3' 43=8< 634' 92=83 ; 4' &' 49=8<9C@834 ' 8 : @H : ' 7 ; 26' 732' ?3<3' ; 5<3 ; 46' ; 57 =8' C ; <3& 8,' : 3<3' ?3<3' ; C ; 24 234' ; 55' 8 : 3' : 3 ; B6' C ; HH ; H3' &' ; 9<4A=' 49B9=9 2' 0? : 9D : ' : ; 4' C332' =8 ; D>34' ; 8' =8 <H ; ' C3& <3' 8 : 3' 7 ; <D : ' 8 ' ; : ; H@2P' ; 2' 3289<3' 43 8' &' 328<32D : 92H' 8 5=' =3B3< ; 5' : @24<34' C ; <<35=' &' <@7 ' ; 24' 7 ; 26' =D <3=' &' D ; <8=' ; 24' B ; H 2=' & <' ? : 9D : ' 4< ; @H : 8' ; 297 ; 5=' ?3<3' ? ; 2892H,' ' J@ ; 28986' &' =< ; ; 55. ; < 7 =' ; 7 7 @2989 2' B ; =' C5 ?2' @ ; ' @8' 8 : 3' 7 =8' 49=8<3==92H' 8 : 92H' &' ; 55' B ; =' 8 : ; 8' 8 : =3' &' 8 : 3' =9D>' &' 8 : 3' ; < 76' B : ' D @54' 2 8' C3 ; <' 8 ' C3' 8 ; >32' 2' 8 : < @H : ' 8 : 3' - ; 2@ ; 96' D 54' 92' 32' ? ; H 2=' : ; 4' 8 ' C3' 53&8' C3 : 924K = 73' & @<' : @249.34' 92B ; 594=' 98' ? @54' =337 ' B3<3' ; C ; 24 234' 92' 8 : 3' : = 98 ; 5' ; 24' &355' 928 ' 8 : 3' : ; 24=' &' 8 : 3' <32D : ,

: 3' 7 =8' 43 5 < ; C53' 8 : 92H' ; C @8' 8 : 3=3' 5 ==3=' B ; =' 8 : ; 8' ; 55' 8 : 3' 3B ; D@ ; 89 2' ; 24' 43=8<@D89 2' ? ; =' D ; <<934' @8' @243<' 49&&9D@5893=' B92H' 8 ' 8 : 3' H< ==' =8 ; 83' &' 49= <43<' ; 24' 9249=D9 5923' 928 ' ? : 9D : ' 8 : 3' ; < 76' ? ; =' & ; 5592H,' : 3' 23 B=' 8 : ; 8' 8 : 36' ?3<3' 8 ' <38<3 ; 8' 2D3' 7 <3' B98 : ' @8' &9H : 892H' : ; 4' 3G ; = 3< ; 834' 8 : 3' 732' 8 ' 8 : 3' 5 ; =8' 43H<33,' : @= ; 24=' &' 8 : 37' H 8' 5 =3' 92' 8 : 3' =8<338=' C<3 ; >92H' 928 ' : @=3=' 7 ; 58<3 ; 892H' 8 : 3' 92 : ; C98 ; 28=' ; 24' 955 ; H92H' 8 : 3' =8 <3=' B : 9D : ' B3<3' 8 ' C3' ; C ; 2*

' 7 ; <3' <3' 8 ' ; =853<D ; H : ' 0&< 7' =8 <H ; ' 3D,' I P' B88 : ', & ' * & $' LNI ' ; 24' ?98 : ' - ; 73=' <3A=' 737 9<' 0 ,' MLP' ; 24' * ,' ,A=' ; @8 C9 H< ; : 6' 0 ,' N P,

M' A ' ' ' ' E /&' =;

4 234' & <' 8 : 399) <9B ; 83' < &98,' : 3' <@ 7' ? ;=' 2 ; 8@< ; 556' ;' H<3 ; 8' ; 88< ; D89 2' ; 24' 7 ; 26' =8< ; HH53<=' ?3<3' 53&8' C3 : 924' 43 ; 4' 4<@2 > ' 8 ' C3' C3 ; 832' @8' &' 8 : 3' 5 ; D3' C6' 8 : 3' D ; B ; 5<6' ? : 32' 8 : 36' 53&8' 98' 2' 8 : 3' 29H : 8' &' 8 : 3' 8 : 9<86.&9<=8,' ;' 7 ; 2 ;' : ; 4' 8 ' 7 ; >3' & < 7 ; 5' D 7 V 5 ; 928' 80&' <3' &' 8 : 3' 7 9=C3 : ; B9 @<' &' 8 : 3' 8< =' ? : ' : ; 4' 3B32' 8<934' 8 ' =83 ; 5' : 9=' ; <89553<6' 7 @53=' ; 24' 92=@5834' : 9=' &99D3<=,' : 3<3' D ; 2' C3' 2 ' 4 @C8' 8 : ; 8' 9&' 8 : 3' <; 2>' ; 24' &953' : ; 4' C332' >3 8' 92' : ; 24' 7 ; 26' B ; 5@ ; C53' =8 <3=' D @54' : ; B3' C332' 49=8<9C@834' 92=83 ; 4' &' 43=8< 634 ' ; 24' 8 : 3' =8< ; HH592H' ? : 9D :' ? ;=' 8 ' < B3' = ' &; 8 ; 5' 7 9H : 8' : ; B3' C332' 29 34' 92' 8 : 3' C@4,' @8' 8 : 3' &&9D3<=' ?3<3' ;=' 49=D 2832834' ;=' 8 : 3' 7 32 ' ; 24' 92' 7 ; 26' <3H9 7 328=' =33 7' 8 ' : ; B3' 7 ; 43' 598853' <' 2 ' 3&& <8' 8 ' >33 ' 8 : 92H=' 8 H38 : 3<,' 5<3 ; 46' =3B3<; 5' C ; 88 ; 59 2=' ?3<3' C3H92 292H' 8 ' 7 ; <D :' ? 98 :' ; 2' ; 4B ; 2D34' H@ ; <4' &' 7 ; <; @43<=' ; 24' ;' <3 ; <H@ ; <4' &' 59 7 92H' =8< ; HH53<=' 8 : 3' =@<3' =9H2=' &' 9 7 32492H' 8< @C53,

6' 8 : 3' 8 : 9<86.&99A=8' : ?3B3<' =8 <H ;' ? ;=' D53 ; <' &' <989= :' ; 24' ; 29= :' 8< =,' <3' 7 ; <D : 34' C6' 8 : 3' 23?' : 9H : .< ; 4 ' 8 : 3' < @83' &' ; 2R ; 2 ; 5K' ;' 7 ; 2 ;' 8 >' 8 : 3' = : <83<' C@8' 7 <3' <@HH34' 43&953' &' 2D3C ; 4 2,' @8' : 3' =328' : 9=' H@2=' ; 5 2H' ? 98 :' 8 : 3' <989= : ' 92' <43<' 8 ' = ; <3' 8 : 3' C3 ; =8=' 8 : 3' =833 3<' ; =D328=' &' 8 : 3' 54' ' : 3' 83<<9C53' < ; 92' &' 8 : 3' 5 ; =8' ? 33>' ? ;=' X@=8' ; ==92H' 928 ' =2 ?' ;=' 8 : 3' 8? ' D 5@ 7 2=' 3B3<6' 7 ; 2' 43= 3<; 8356' @8' &' : 3 ; <8 ' C3H ; 2' 8 : 39<' 5 2H' @ : 955' D59 7 C' ; D< ==' 8 : 3' <94H3' &' 8 : 3' 283' 3532 ' 8 ? ; <4=' 8 : 3' @ 5 ; 24=' &' 8 : 3' / 93<R ,

3 , .' ; DD @28' &' 8 : 3' <38<3 ; 8' &< 7' ; : ; H@2' 9=' D 2=8<@D834' &< 7' ;' D ; <3&@5 D 7 ; <9= 2' &' 8 : 3' &&9D9 ; 5 4 D@ 7 328=' ?98 :' 8 : 3' 737 9<=' ; 24' 7 2 H<; :=' &' 8 : 3' & 55 ?92H' <989= :' 363. ? 9823==3=' K C3<8' 5 ; >3236' 0 &' 8 : 3' $M8 : P' 9&53 7 ; 2' ; <<9=' ; 24' 3<H3 ; 28' @<833=' 0 &' 8 : 3' $j" 8 : P' <4' 24 243<<6' ; 24' <4' / 9B9 ; 2' &' 8 : 3' ; B ; 5<6' <9H ; 43' 398 :' ; 6' 0 943.43. ; 7 ' 8 ' %323<; 5' 398 : P' : ; <53=' ; 24' 9559 ; 7' ; 93<' , ;' &' 8 : 3' =8' 833B32=' &' 8 : 3' $#8 : ' 8 : 3' @<H3 2' 4 ; 7' 3 ; 53' ; 24' 8 : 3' : ; 5 ; 92' <7=C6,' <; 4& <4' ; 2 8 : 3<' D : ; V 5 ; 92' : ; =' 53&8' ;' =3<93=' &' ; 4 7 9<; C53' ? ; 83<.D 5 9?' 4<; ? 92H=' &' 8 : 3' D : 93&' 928=' 2' 8 : 3' < ; 4*' ;=' &; <' ;=' @H ' 7 ; 43' @243<' =@D :' 49&&9D@5893=' ;=' D ; 2' C3' ? 355 9 7 ; H9234,' &' <32D :' 363. ? 9823==3=' ' : ; B3' @=34' 8 : 3' ; DD @28=' &' 8, : ; 7 ; 2=' ; 2892' 43=' 4 ; <4=' ; 6593=' 3' % 29936553' 3X3@23' ; 24' 8 : 3' 4383=8 ; C56' 92 ; DD@<; 83' 3' C53,

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:9= ;H328= ?3<3 8< @C534 ;24 83<<9&934K 8:36 =337.8 :;B3 =328
:97 ;5;<792H :928= ?:9D: :;4 &;< 7 <3 8 4 ,?98: :9= <38@<2 8
<;2D3 8:;2 ;26 &3;< ;=8 8:3K92832892= & @=8<9;

2 &8.<3 3;834 =8 <6 =;6= 8:;8 8:3 7 3< < <3D39B34 ; ;D>38
& 96$83<= &< 7 ;<9= ?:953 <9492H &< 9 32;B3283 8 =8 <H; 2
-;2@;<6 M#" ;24 ;&83< <3;492H 8:37C6 8:3 ?;6=943 B98:
3B3<6 =9H2 &;2H3< 43D5;<34 8:;8 :3 7@=8 <38@<2 8 <;2D3, &
'8:3 8;53 C3 8<@3 ?3 7;6 C3 =@<3 8:;8 8:3 ; 3<= ?:9D: = 7 B34
:9= ?;8: :;4 2 <3&3<32D3 8 ;<7;7328= 2 8:3 ;2@C3 C@8
?3<3 D 2D3<234 ?98: 8:3 928<9H@3= 92 ;<9=, :3<3 ?;=;C= 5@8356
2 8:92H 92 8:3 =8;83 & @< 3;2 ;&&;9<= 8 7;>3 ;2 92=8;28
43 ;<8@<3&< 7 ;92 23D3==;<6, 2 8:3 8:3< :;24 <@7 B@= &
4 73=89D 5 8= ;5?;6= 8 @D:34 8:3 7 3< < 8 8:3 J@9D> ;24
98 7@=8 :;B3 C332 ;= 9<<98;892H ;= 98 ?;= @23G 3D834 8 49=D B3<
8:;8 :9= ?2 =9=83< ;24 C< 8:3<.92.5;? ?3<3 4;CC592H 92 =@D:
928<9H@3= 3B32 8: @H: =832=9C56 8:36 ?3<3 C@8 49=D@==92H ?:;8
=: @54 C3 4 23 9& = 738:92H =: @54 :; 32 92 ;92 8 8:39<
;@H@=8 <35;89B3,

5<3;46 3<3 53;B92H 32;B3283 8:3 7 3< < :;4 9==@34 <43<=
?:9D: =: ?34 8:;8 :3 :;4 ;C;24 234 :9=: 3 &=9@< @2492H ;24
D<@=:92H <3, 3 :;4 C3H@2 8 =324 && 8 8:3 <9H:8 ;24 8
8:3 53&8 ;<8, &8:3 H<3;8 7;== &8< = ?:9D: :3 :;4*C< @H:8
?98: :97, 2 3D37C3< I :3 ?< 83 8 3== 553= ;24 <43<34 :97
8 H9B3 :9= 49B9=9 2 ;=: <8 <3=8 ;8 /955;D;=892 ;24 8:32 8 <38@<2 8
;4<94 ?:3<3 8:3 H;<<9= 2 ?;= 8 ?3;>, 2 -;2@;<6 8:3 ?: 53
& 8:3 7 3<9&95 %@;<4 ?;= 49<3D834 8 :;58;24 <38@<2 8 32;B3283
&< 7 ?:32D3 98 ?;= = 2 ;&83< 8 54 8 7;<D: C;D> 8 /;55;4 594,
; 9==3A= 49B9=9 2 & /9D8 <A= D < = ?:9D: :;4 H 8 2 &@<8:3< 8:;2
32;B3283 92 98= ;4B;2D3 ?;= 8@<234 && 8 =@C4@3 8:3 = @8:3<2
;<8= & 8:3 >92H4 7 & 3 2, 8:3 =;73 324 ?3<3 49B3<834
A B32;6A= ;24 ;@ 3898A= C<9H;43= &D;B;5<6, U@983 D 28<;<6

<;24 ?;= =39R34, :3 <3 < ;D:34 ?:9D: :3 @8= 928 ; 53 2A= 7 @8: 7@=8
&;2D6 C3 8;>32 ;= ;C @8 ;= ;@8:3289D ;= ;2 <;89 2 92 :@D6493=,
* :3<3 ?;= ;5= ;8 8:9= 7 7328 ;=59H:8 <3D@43=D32D3 & 8:3 54 ;H98;89 2
&A8:3 92 8:3 ?3=8 & <;2D3, B;C53 D 5@72= :;4 8 C3 =328
@8 92 8:3 43 ;<87328= & 8:3 ;63223 ;24 ;<8:3, 33 , ! + !
L M .$,

* :9= ?;= ; 837 <;<6 C<9H;43 7;43 @ & 8:3 I<4 @8D: @==;<= ;24
; < B9=9 2;5 <3H97328 & 4<;H 2=,

N8: <;H 2= ;24 ;<8 & 8:3 <3H97328 & 3=8 :;59;2 + YAH * $
8:36 C35 2H34 8 8:3 D < =.D;B;5<6 & 3&3CB<3,

=: @54 =@&&3< ;26 D:3D> :3 ?;= =@<3 & < 7 8 =@ <8 ?98:92 8:<33 4;6=, 59@= 8:3 ?: 53 & <D3 =328 92) D:;=3 & <3 7@=83<34 = 7 3 L ### 732

:3 :3;4 & 8:3 @<=@92H D 5@7 2 ?;= & <7 34 C6 ;: @==;63A= 4<;H 2= ;24 5C3<8A= 59H:8 D;B;5<6K 92 =@ <8 & 8:3=3 C@8 ;5?;6= = 7 3 7 953= 8 8:3 <3;<K D;7 3 3<53A= 92&;28<6, :9= & <7 34 8:3 <32D:B;2K 8:3 <3=8 & @58A= 8< = ?3<3 ;7 ;<D: C3:924 ?98: 3@43538A= 49B9=9 2 & <<3;<H@;<4, 55 8:3 $24 < = & 55 ?34 8:3 2H59=: 2 8:3 ;2R;2;5< ;4K 256 <;2D3=D:9A= & 9@<<3H9 7 328= & D;B;5<6 8@<234 ;=943 8 & 55 ?8:3 <@HH34 ;== & 2D3C;4 2 C6 ?:9D: ; 7;2;A= 495; 94;834 : =8 :;4 <389<34, :3 3G:;@=834 ;29;<4= ?3<3 7 ;>92H C@8 =5 ?< H<3== 8:< @H:8:3 =2 ?;24 8:3 7 @28;92 8 <<328=, <;2D3=D:9 D;@H:8 8:3 7 @ 2 -;2@;<6 $;24 =D;883<34 8:39< <3;<H@;<4 @243< %323<;5 32H35 8;>92H ; D @ 53 & &5;H= ;24 = 73 ## 7325 8:3 <9= 23<= ;<3 43=D<9C34 ;= C392H 92 8:3 5;=8 3G8<3 7 986 & 7 9=3<6 ;24 &;89H@3 ;24 7;26 & 8:37 ?3<3 92&3D834 ?98: 8:3 86 :@= &3B3< ?:9D: :;4 C332 :;2H92H ;C @8 8:9= @2& <8@2;83 D < = 3B3< =92D3 98= ; B&@5 3G 3<932D3 92 8:3 ;28;C<9;2 :9 = 4@<92H 8:3 7 28: & B3 7 C3<

<3A= ;<7 6 ;= ?3 :;B3 ;5<3;46 =332 :;4 7;<D:34 @8 7 =8 <H; 8:3 7 ;92 C 46 2 3D3 7 C3< I# 8:3 <3;<H@;<4 2 8:3 8:9<86.&9<=8, &83<4383<7 9292H 8:;8 :3 ? @54 2 8 43&324 8:3 ;==3= & ;2R;2;5 ;24 2D3C;4 2 8:3 H323<;5 :;4 4 @C834 ?:38:3< :3 =: @54 7;>3 :9= <38<3;8 2 <@22;C6 8:3 H<3;8 < 2 /9H C6 8:3 792 < <;4 ?:9D: H 3= B9; <32=3 ;24 8:3 B;5536 & 8:3 95, 8 9= =8<;2H3 8:;8 :3 494 2 8 =33 8:;8 :9= 7924 7@=8 C3 < 7 856 7;43 @ ;24 8:;8 ?:32 2D3 :3 :;4 ;==34 8:3 7 @28;92= :3 7@=8 D 7 7 98 :97=35& 8 23 < 8:3 8:3< < @83, @8 :9= 49= ;8D:3= 8 ;=853<3;H:= ?8:;8 98 ?;= 2 8 8955 :3 :;4

* 7 28:;&83< 8:3 @<=@98 & <3 :;4 32434 ;24 8 3 C;8853 & <@22;: ;4 C332 & @H:8 8:3 & @< 92&;28<6 49B9=9 2= & @58A= D < = ?:9D: ?3<3 92 %;59D9;:;4 =8955 " ### 3&&3D89B3 C;6 238= & < 8:3 92B;=9 2 & <8@H;5, :3 8:<33 D;B;5<6 49B9=9 2= ?3<3 = 73 hN I## =8< 2H, 36A= D < = ?:9D: ;4 :;<456 C332 32H;H34 :;4 N ### 92&;28<6 ;24 ### D;B;5<6, :3<3 ?3<3 =8955 8:3<3& <3 L I## 732 92 :;24 & 8:3 8? D < =, 8 9= 97 ==9C53 8 7;>3 8:3 5 ==3= & < 7 8:3 5 2H @<=@98 92 8:3 =2 ?;24 8:3 C;8853 & <@22;53==8:;2 L ## < N ### 732 ?:32 ?3 <3&53D8 8:;8 <3 5 =8 N ### & ?: 7 256 $ ### ?3<3 <9= 23< ;24 8:;8 @58 =@&&3<34 ;8 53;=8 N## D;=@;5893= 92 8:3 <@22;&9H:892H,

, ! + !, L NN$, :3= : 7 73= <9= =@< ;7;2;38;9328 : <V <9C53= L B 9< =;6= ; 53 2 ?: =;?8:37;8 =8 <H;,

$

NL‘ A ‘ ‘ ‘ > ‘ E: ‘ <

<3;D:34‘ @H ‘ 8:;8‘ :3‘ &92;556‘ 43D9434‘92‘ &;B @<‘ &‘ 8:3‘ 7;92‘ < ;4‘ ‘ 3‘ 7@=8‘ :;B3‘ & <7 34‘8:3‘ 3<< 23 @=‘ D 2D5@=9 2‘ 8:;8‘8:3‘ <32D:‘? @54‘2 8‘ @<=@3‘ :97‘ &;<‘ C36 24‘ =8 <H;‘ K‘ :3‘8: @H:8‘ 8:;8‘8:36‘? @54‘C3‘=8 34‘C6‘?;28‘ &‘ < B9=9 2=‘);24‘C6‘&;89H@3,‘ & B92H‘& <7 34‘8:9=‘97= 974‘:6 8:3=9=‘:3‘ @8‘ &&‘8:3‘&92;5 43D9V =9 2‘;=‘8 ‘:9=‘< @83‘8955‘:3‘=: @54‘<3;D:‘ @H S 3;2?:953‘8 ‘ < 83D8‘ 8:3‘=943.< ;4‘8 ‘/9H ‘:3‘438;D:34‘I ##‘ &‘:9=‘C3=8‘8< =‘ C3<8‘ <;?&@<4A=‘59H:8‘C<9H;43‘W8:3‘LI<4‘0 =8‘C;88,P‘ $24‘0$24‘C;88,P‘ ;24‘" 8:‘0$24‘C;88,P]‘;24‘ 5832A=‘C<9H;43‘ &‘8:3‘%3<7;2‘ 3H9 2,‘ :36‘ 49B3<H34‘&< 7‘8:3‘7;92‘<;4‘;&83<‘53;B92H‘ =8 <H;‘;24‘ 7;<D:34‘C6‘ 2&3<<;4;‘;24‘ ;‘ @;‘ 2‘ <32=3,‘ ?‘7@D:‘8:36‘ =@&&3<34‘ 2‘8:3‘79=3<;C53‘C6 ;8:=‘ &‘8:3‘B;5536‘ &‘8:3‘ 95‘ 7;6‘ C3‘H;8:3<34‘92‘8:3‘9283<3=892H‘49;<93=‘ &‘ @<833=‘;24‘ ;<<9=K‘C@8‘ 98‘?;=‘ 256‘?98:‘8:3‘=2 ?‘;24‘8:3‘?;28‘ &‘& 4‘8:;8‘8:36‘:;4‘8 ‘ D 28324,‘ :36‘23B3<=;?‘;‘ <32D:7;2‘37C;<>34‘@27 53=834‘;8‘ /9H ‘;24‘?3<3‘;C= 5@8356‘@=353==‘8 ‘ <3‘4@<92H‘8:3‘<3=8‘ &‘8:3‘ D;7 ;9H2,‘ 8‘9=‘97 ==9C53‘8 ‘@243<=8;24‘ :?‘98‘D;73‘8:;8‘8:36‘ ?3<3‘=328‘;?;6‘92‘8:9=‘&;=:9 2‘;24‘2 8:92H‘D;2‘C3‘=;94‘92‘&;B @<‘ &‘8:3‘7 B3,‘ 253==‘8:3‘?:53‘;<76‘?3<3‘H 92H‘C6‘8:3‘ <32=3‘ <;4‘2 ‘ 23‘=: @54‘:;B3‘C332‘=328‘;5 2H‘98K‘;24‘8:3‘49&&9D@5893=‘ &‘8:3‘8<;D>‘?3<3‘=@D:‘8:;8‘8 ‘:;B3‘8;>32‘8:3‘7;92‘C 46‘ B3<‘98‘ ? @54‘:;B3‘C332‘ <;D89D;556‘97 ==9C53,‘ =‘98‘?;=‘I ##‘ &923‘ = 5493<=‘?3<3‘?;=834‘& <‘;55‘&9H:892H‘ @< =3=,‘ :3‘4@86‘ &‘D B3<92H‘ 8:3‘ <3;<‘ &‘8:3‘;<76‘?:9D:‘:;4‘:98:3<8‘ &;5532‘8‘ 8:3‘5 8‘ &‘ <;?&@<4‘?;=2 ?‘8<;2=&3<<34‘8‘%323<;5‘ ;H38‘;24‘8:3‘T‘ 3=3<B3‘ 9B9=9 2 ,K‘ 23‘ <3H97328‘ &‘:@==;<=‘W8:3‘ 8:]‘?;=53&8‘?98:‘ 8:37K‘8:3‘ 8:3<& @<‘D;B;5<6‘D < =‘ @=:34‘ 2‘8‘8:3‘&< 28‘;=‘8:3<3‘ ?;=‘2‘H<3;8‘ <8@2986‘& <‘@=92H‘8: 7‘2 ?‘8:;8‘8:3‘;<76‘:;4‘ 5@2H34‘928‘8:3‘7 @28;92=,

‘ :9=‘9=‘7;43‘;C= 5@8356‘D3<8;92‘C6‘:9=‘53883<‘ &‘-;2,‘ I‘92‘?:9D:‘:3‘=;6=‘ 8:;8)‘;8‘ @H ‘‘C3D;73‘=32=9C53‘ &‘8:3‘97 ==9C95986‘ &‘<3;D:92H‘/9H ‘?:9D:‘ 9=‘;8‘8 ‘H<3;8‘;‘49=8;2D3,K‘ 2‘=8;<892H‘&< 7‘ =8 <H;‘8:32‘:3‘=8955‘8: @H:8‘ 8:;8‘:3‘79H:8‘C3‘;C53‘8‘37C;<>‘;8‘8:;8‘ <8,‘ ‘H5;2D3‘;8‘8:3‘7;‘=: ?=‘ 8:;8‘8:3‘7;<D:‘=8 <H; @H /9H ‘9=‘8?‘=943=‘ &‘;‘8<9;2H53,‘ &‘8:3‘/9H ‘ < @83‘?;=‘8‘C3‘8;>32‘8:3‘ 256‘<;89 2;5 5;D3=‘8‘8@<2‘ 2‘8‘98‘;<3‘ =8 <H;‘ ;24‘ 2&3<<;4;

* T &83<‘;‘89 73‘8:3‘=;73‘49&&9D@5893=‘?:9D:‘;&&3D8‘@=‘7@=8‘;&&3D8‘:97‘W @58]K 8:3<3& <3‘8:3‘<3;<‘ 2D3‘ ;=8‘/955;&<;2D;‘‘4‘2 8‘3G 3D8‘8‘C3‘7 53=834K 0 <3‘8‘ ;=853<3;H:‘&< 7‘ =8 <H;‘ 3D,‘I P,

M 2=9=892H‘ &‘8:3‘$#8:‘ 8‘;24‘8:3‘&9<=8‘C;88;59 2=‘ &‘8:3‘$M8:‘ $24‘ " =8‘;24‘"N8:,

<38<3;8 8<934 8:3 7;D:923<6 &8:3 <3H97328=8 8:3 @87 =8;24 8:;8 ?:3<3 8:3 7;2;H37328 ?;= ?3;> <92D 7 38328 49=D9 5923 C< >3 4 ?2, 8?;=2 8 8:3 8< =?:;4 8:3 5 2H3=8 7;<D:3= <8:3 7 =8 &9H:892H 8:;8 =@&&3<34 8:3 :3;B93=8 5 ==3=K 8: =3 &; D8A= 49B9=9 2 8:3 <3;<H@;<4 &8:3 ?: 53 ;<76J ?:9D:? ;= D 2=8;2856 92 8 @D:?98:8:3 <32D:;4B;2D3 D 7 ;<3&;B @<;C56 ?98:8: =3 &= 73D < =?:9D:23B3<&9<34 ;=: 8 C38?332 32;B3283 ;24 <@22;, 8 9= =;4 8 :;B3 8 D 2&3==8:;8:;5&8:3 : << <= &8:3 <38<3;8 ?3<3 4@3 8 @<356 <3B3289C53 D;@=3=;24 8:;8 9&8:3 C;456.7;2;H34 <3H97328=:;4 C332 @ 8 8:3 49=D9 592;<6 =8;24;<4 &8:3 %@;<4= <8:3 9H:8 <9H;43 8:3 ?: 53 7;<D:? @54 :;B3 C332 <37373C3<34 ;=8 95= 73 C@8 2 8 49=;=8< @=, <3 :97=35& ?< 83 92 8:3 5;=8 49= ;8D:8 ?:9D:: 3 3B3< =38 :9= :;24 8:;8 T:3? @54 2 8:;B3 C3593B34 :;4:3 2 8 ?9823==34 98 8:;8;' <989=:;<76? @54 92 = =: <8;'897 3:;B3 C332 = D 7 538356 437 <;59R34, 8= D 24@D8 4@<92H 8:3 5;83 7;<D:3= ?;= 92&;7 @= C36 24 C3593&, 3 D @54 =;6 2 8:92H 92 98= &;B @< C@8 8:;8 ?:32 8:3<3 ?;= ;' < = 3D8 &9H:892H 8:3 732 ?3<3 ;8 2D3 =83;46 ;24 =337 34 53;=34 ;24 4383<7 9234 8 4 8:39< 4@86 ,K :9= 432@2D9;89 2 ?;=&;<8 =?33 92H'& <7;26 D < =>3 8 H 4 <43<8:< @H: @8 8:3 ?: 53 D;7 ;9H2K C@8 8:3<3 ?;= 256 8 7@D:8 X@=89&6 <3A= ;2H3<,

:3 =3<9 @= 8< @C53 C3H;2 ;8 37C9C<3 8:3 &9<=8 5;D3 C36 24 8:3 ;== &9;2R;2;-?:3<3 3A= ;9<4A=;24 <;=3<A= 49B9=9 2= :;4 32D;7 34 2 8:3 29H:8 &8:3 8:9<86.&9<=8, :3 B955;H3?;= @2& <8@2;8356 ;'5;<H3 5 D;5 43 8 & <?923K =592>92H &&& &< 7 8:39< D 7 ;293 7;26 :@24<34= &7;<;@43<= 7;43 8:39<?;6 928 8:3 B;@58= ;24 D355;<=, :32 8:3 49B9=9 2= 7;<D:34 23G8 7 <292H 8:36 53&8 23;<56 ;8: @=;24 732 92 B;<9 @= =8;H3= &928 G9D;89 2 5692H ;C @8 8:3: @=3= ;24 =8<338=, :3 &&9D3<= &;H38A= 3=3<B3 ?: D;73 @ 8:;8;&83<2 2 43=D<9C3 37C9C<3 ;= 5 >92H 59>3 ;' C;8853.&9354 = 8:9D>56 ?3<3 8:3 < =8<;83 <34D ;8= =8<3?2 92 3B3<6 D <23<, /9H < @= 3243;B @<= ?3<3 7;43 8 < @=3 8:3=3 C;4 = 5493<= ';24 8 =8;<8 8:37 @ 2,8:39< ?;6 C@8 3B32 23G8 7 <292H 8:3<3 ?3<3 7 @5898@43= ?: D @54 2 8 ? @54 2 8 7;<D: F :32

J@ 83 &< 7 8:3 <9H92;5 92 8:3 3D <4 &&9D3 2 8 &< 7 8:3 7 @895;834 B3<=9 2 <92834 92 8:3 # "' # ! ;24 35=3?:3<3,

* 5;>3236 8:3 &8:3 $M8:=;6= 3 37 5 634 8:3 H<3;83< ;<8 &-;2, 92 8@<292H <4<;HH92H 8:3 4<@2>32 7 32 @8 &8:3: @=3= 928 8:3 =8<338=;24 =32492H & <?;<4 ;= 7;26 ;= D @54 C3 7 B34, 38 598853 D @54 C3 3&&3D834 ?98: 7 32 92D; ;C53 &=8;2492H 7 @D:53== &7;<D:92HK 0 , N#P,

M#"] / N

8:3 3=39)63 3B;D@;834 8:3 5;D3 2 -;2@;<6 $ 98 ?;= =8955 :955 & 8 < 94 =8<;HH53<=, @443256 8:3<3 ; 3;<34 2 8:3 =D323 8:3 53;492H C<9H;43 & ;: @==;63A= 4<;H 2= @=:92H 4 ?2 &< 7 8:3 ;== & ;2R;2;5 ;24 499B92H C3& <3 8:37 8:3 5;=8 :@==;< 9D>38 ?:9D: ;H38 :;4 53&8 C3:924, :3 2 9=3 &8:3 :<=37 32 < @=34 8:3 592H3<3<= ?: C3H;2 ;8 5;=8 8 =8;HH3< ;?;6 C@8 98 ?;= "8 5;83K T8:3 D;B;5<6 < 43 8:< @H: 8:3 5 2H 5923 &8:3=3 5;73 43&32D353== ?<38D:3= =5;=:92H ;7 2H 8:37 ;= ;=D: 5C 6 4 3= ;7 2H 8:9=853= ,A =8 &8:3 =8<;HH53<= 98 9= =;94 ?3<3 =8955 = 92=32=9C53 &< 7 59J@ < 8:;8 8:36 7;43 2 <3=9=8;2D3 ;24 494 2 8 3B32 H38 @8 &8:3 < ;4 , &3? ?8: 4<3;4&@5 D@8= ;C @8 8:39< :3;4= ;24 =: @543<= =@DD33434 92 B3<8;>92H 8:3 3=3<B3, <3 :;4 8:3* < C5334 92H ?<38D:3= ;<;434 ;5 2H 8:3 &< 28 &8:3 <3H925328= ;= ; B;9.292H 8 4<@2>;<4= ;24 7;592H3<3<=,

3;2?:953 ;9<4 ;24 3A= 49B9=9 2= :;4<3;D:34 /955;&<;2D; 2 8:3 &9<=8 ;24 =D323= ;57 =8 ;= 49=H<;D3&@5 ;= 8: =3 & 37 C9C<3 ?3<3 DD@<<92H, :3 8 ?2?;= <3A= 7 =8 97 <8;28 43 8K 98 D 28;9234 & @<8332 4;6=A <;89 2= &C9=D@98 & <8:3?: 53 ;<76 ;2 97 732=3 ;7 @28 &=;58.C33& ;24 <> ;24 = 73 :@24<34= , & C;<<35= &<@7, :3<3 ?;= 2 8<;2= <8 8 D;<<6 &5 ;55 8:9= B;5@;C53 < B3243< ;24 <3 <43<34 98 8 C3 H9B32 8 8:3 &5;73=, 3;<92H &8:9= 8:3 8< =C< >3 928 8:3 7;H;R923= ;24 C3H;2 8 5 ;4 8:37=35B3= ?98:;55 ;24 7 <3 8:;2 8:36 D @54 D;<<6 ;<H@92H 2 8 @22;8 ;556 8:;8 = 7@D: H 4 & 4 =: @54 2 8 C3 C@<28, <3 <43<34 23 7;2 ?: ?;= D;@H:8 C<3;>92H 928 8:3 <@7 =8 <3 8 C3 =: 8 92 8:3 =J@;<3, @8 98 ?89= 2 @=35 8:3 = 5493<= C@<=8 5 =3 8: @H: 7;26 &8:39< &&9D3<= D@8 ;24 =5;=:34 ;8 8:37 8 >33 8:37 92 8:3 <;2>= ;24 =2;8D:34 ,8: ;8 8:36 D @54 &< 7 8:3 &9<3=, 73 & <D34 32 <9B;83 : @=3= ;24 5@243<34 ;24 92 ;&3? D;=3= 7;58<3;834 < 3B32 7G9<43<34 8:3 8 B2=& 5> ?C ? @54 2 8 H9B3 8:37 4<92>, H<3;8 7;26 H 8 ;8 8:3 <@7 ;24 ?3<3 53&8 C3:924 ?:32 8:3 49B9=9 2= 7;<D:34 2 -;2@;<6 I

:953 8:3=3 <H93= ?3<3 H 92H 2 ;8 /955;&<;2D; ;H38 ;24 8:3 3=3<B3 :;4 C332 :;5834 =9G 7953= ;?;6 ;8 ;D;C355 = ?:3<3

; ; ,A &8:3 5=8&< ; NMP, *

4;7 3;53 ; MM, 8: :3 ;24 T ; ,A 73289 2 8:3 ;<;492H &8:3 ? @2434 732 ;5 2H 8:3 5923=,

A &, 5;>3236 3;53 24 243<<6 ;24 -;73= <3,

"R ; 9 ' ' N"

=8<3; 7,' 5C3<8' =?33 92H' 4 ?2' D5 =3' 8 ' 8:39<' :335=' D; 73' @ 2' 8:349= <43<34' 92&; 28<6' ; 24' 8 >' = 73'& <86' <' &9&86' <9= 23<=' C3& <3' 8:3' <9&53732' D @54' 3=D; 3' ; D< ==' 8:3' ?; 83<' @8' =3392H' 8:3' $M8:' ; 24' 8:3' H@2=' : 5492H' 8:3' =5 3' ; C B3' :3' :; 5834' & <' ;' 7 7328' C3& <3' ; 8837 892H' 8 ' < D334' &@<8:3<,

-@4H92H' : ?3B3<' &< 7' ;' :; =86' =@<B36' 8:; 8' 8:3<3' ?3<3' 2 ' B396' ,H<3; 8' 2@7C3<=' =34' 8 ' :97' 8:3' 6 @2H' <32D:' H323<; 5' <3= 5B34' 8 ' ; 8837 8' 8 ' D; <<6' 8:3' C<94H3' &' ; D; C355 =' C6' ;' &@<9 @=' D:; <H3' X@=8' ;=' <; 2D3=D:9' :; 4' & <D34' 8:; 8' &' ; 2=955;' &9B3' 4; 6=' C3& <3,' :9=' ?;=' ;' 7 =8' :; R; <4 @=' ; 24' 955.; 4B9=34' 7 B3K' 98' D @54' 256' =@DD334' ; H; 92=8' 437 <; 59R34' 8< =' ; 24' ?;=' C @24' 8 ' &; 95' ?:32' 8<934' ; H; 92=8' 8:3' =83; 46' C; 88; 59 2=' &' 8:3' 3=3<B3' 49B9=9 2,' @8' <; 2H92H' :9=' 53; 492H' <3H97328'& @<' ; C<3; =8' 5C3<8' D:; <H34' & <' 8:3' C<94H3K' 8:3' =9G' H@2=' =983' :97' 8 <3' 8:3' :3; 4' &' 8:3' D 5@72' 8 ' 93D3=' C@8' 8:3' 7 ; X <986' &' 8:3' 8< 3<=' H 8' ; D< ==' ; 24' 8<934' 8 ' 4; =:' @ :955' ; 24' D; 8@<3' 8:3' =989 2,' :36' :; 4' &; 5532' 928 ' ;' 4<3; 4&@5' 8<; ' & <' 8:3' $M8:' C5 D>34' 8:3' < ; 4' X@=8' C36 24' 8:3' C<94H3' ?:953' 8:3' " 8:' ; 24' $24' @<34' 92' ;' : 8' &5; 2>92H' &9<3' &< 7' C3:924' 8:3' B9236; <4' ?; 55=' 2' 398:3<' =943,' :3<3' ?;=' 2 ' H38892H' 1 & <?; <4K 5C3<8' :97=35&?;=' =: 8' ;=' :38<934' 8 ' @<H3' 2' :9=' 732' F ; 24' :9=' ; 943.43.D; 7 ' ; 8 @<. ; @C @<H' &355' ; 8' :9=' =943,' &83<' =8; 692H' & <' 2 ' 7 <3' 8:; 2' ;' &3?' 792@83=' 2' 8:3' &@<8:3<' =943' &' 8:3' ?; 83<' 8:3' C<9H; 43' 8@<234' <392' ; 24' 5@2H34' C; D>' ; D< ==' 8:3' C<94H3' 53; B92H' 7; 26' =D <3=' &' 43; 4' ; 24' ? @2434' C3:924' 8:37,

; : @==; 63A=' 4<; H 2=' 2 ?' D; 73' 8 ' 8:3' &< 28K' =&3B3<;5' =J@; 4< 2=' &' 8:37' & <434' 8:3' <9B3<' ; 8' 49&&3<328' 928=' C@8' 97; C53' 8 ' D:; <H3' ; 7 2H' 8:3' < D>=' ; 24' B923=' 8:36' ?3<3' & <D34' 8 ' 49=7 978' ; 24' 8 ' ; D8' ;=' =>9<79=:3<=' ;' D; ; D986' 92' ?:9D:' 8:36' D 7 3834' 8 ' 2 ' H<3; 8' ; 4B; 28; H3' ; H; 92=8' 8:3' $24' ?98:' ?: 7' 8:36' & @24' 8:39 =35B3=' 32H; H34,' 8' ?;=' 2 8' 8955' 8:3' 53; 492H' 92&; 28<6' &' 3<53A=' B9=9 2' D; 73' @ ' 2 8' 5 2H' C3& <3' 4@=>' 8:; 8' 8:3' <32D:' ?3<3' 32; C534' 8 ' 7; >3' ; 26' :3; 4' ; H; 92=8' 8:3' 43&3243<=,' :39<' B 589H39<<=' C9D>3<34' ?98:' 8:3' " 8:' ; 24' $24' & <' ; 2' : @<' C@8' ?:32' 8:3' & <734' D 5@72=' 8<934' 8 ' D< ==' 8:3' C<94H3' 8:36' ?3<3' = ' <; >34' C6' 8:3' =9G' H@2=' =983' 8:37' 8:; 8' 8:36' H; B3' C; D>' 92' 49= <43<,' &83<' 4; <>' 8:3' &9<92H' D3; =34' ; 24' <3' ?: ' :; 4' D 73' @ ' 92' 3<= 2' & 7' / 955; .

T' <86.39H:8' 9=' 8:3' 2@7C3<' H9B32' 92' 3A=' 3GD35328' ' ' ' '

M * (

* 3' ?; =' =: 8' C6' 7' 5@2>38' ;' 2 834' D:; <; D83<' 92' 8:3' " 8:' &< 7' ;' <; 2H3' 8:; 8' =337 34' 3G8<; <492; <6' 8' 8:3' <9&53732' &' 8:; 8' 4; 6,

E: H

&<;2D;;8,8:3= @24 &8:3D;22 2:;42 49&&9D@586922?98:4<;?92H :9= 732 @243< D B3< &8:3 29H:8, 2 8:9= =:;< =>9<79=:3;D: =943 5 =8 = 73 $## 732K 8:3 <32D:D;=@;5893=?3<37;9256 92 5C3<8A=D;B;5<6 8:3 <989=:?3<349=8<9C@834 @23J@;556C38?332)8:3 " 8:0?: =@&&3<34 7 =8P 8:3 $M8:;24 $24K 8:3 8:3<8? <3H97328= <3=328 08:3 $#8:;24 " =8P?3<3 :;<456 32H;H34

;<D:92H ;55 8:< @H: 8:3 29H:8 &I<4.L8: &-;2@;<6 8:3 3=3<B3 49B9=9 2 ;==34 8:< @H:/955;&<;2D;?:3<3 =8 <3= &;>924=?3<3 =89 C5;R92H92 :@H3 C 2&9<3=,;24 494 2 8:;58 8955 8:36 <3;D:34 H;53= 39H:8332 7953=&@<8:3< 2, 936 & @24 8:3 <;4 C3& <3 8:37 =8<3?2?8: 23 D 2892@ @= 5923 &?<3D>;H3 &< 7 8:3 <3H97328= &,8:3 7;92 P 46, :3 D @28<6 C36 24 /955;&<;2D;? ;= &;< 7 <3 C;<3;24 43= 5;83 8:;2 8:3 3;=83<2:;5& &8:3/93<R 49=D9 5923 H<3?? <=3 3;D: 4;6;24 8:3 =@<B9B92H ;297;5= &8:3 C;HH;H3.8<;92 ?3<3 4692H &&?: 53=;53 &< 7 D 54 ;24 ?;28 & &<;H3,$:3 D;B;5<6: <=3= ?3<3 ;5= C3H922 92H 8 3<9=: "" &;=8 7;9256 &< 7 5 =92H 8:39< =: 3= 8:3 <@H: ;24 =8 26 <;4, = = 2 ;= ;: <=3?;= @2;C53 8 >33 @ ?8:8:3 <3H9V 7328:3?;=0C6 <4 ;H38A= <43<=P=: 8 C6 :9= <943<92 <43< 8 <3B328 :97&< 7&;5592H 928 8:3::24= &8:3 <32D:, ;26 ?9823==3= &8:3 <38<3;8 =8;83 8:;8 8:3 92D3==;28 D<;D>92H &8:3 :@==;<=A 9=8 5= ;= 8:3 @2& <8@2;83 D:;<H3<= ?3<3 =: 8 ?;= 8:3 8:92H ::;8 592H3<34 5 2H3=8 92 8:39& 737 <93= &;55 8:3 = @24= & 8:3=3 @2:; 6 4;6=,

36 24 /955;&<;2D;8:3 <@22;< ;4 ;==3= 8:< @H:8:3 9D8@<V 3=J@3]43&953 &934<;&98;C6?:9D:98 <3;D:3= 8:3 :3;4?;83<= & 8:3 ;B;<9B3<;24 8:32 D597 C92H8:3= @<= & 283 3C<3<D 73= @8 928 8:3 C53;> @ 5;24 5;92 & @H , :9=A &9&86 7953= D 2V 8;9234 8:3 7 =8 49&&9D@58 ;24 43= 5;83 D 97 8<6 92 8:3?: 53 & <3A= 7;<D:;24?;= 8:3=D323 &7 <3:35 53== ;24 @243=3<B34 79=3<6 8:;2 ;26 8:3< =3D89 2 &8:3 <38<3;8, 8?;= 2 8 73<356 4<@2>;<4= ;24 7;<;@43<= ?: 2 ?C3H;2 8 &;55 8 8:3 <3;<C@8 =83;46 54 = 5493<= ?: D @54 2 8 &;D3 8:3 D 54 8:3 =379.=8;<B;89 2 ;24 8:3 & <D34 7;<D:3=, <3a:@<<934 :9= 8< = & <?;<4 ;8 ;; D3 8:;8 B3< =@D:< ;4= D @54 256 C3 >3 8 @ C6 8:3 =8< 2H3=8

; 53 2A= 2 8 B3<6)D 2B92D92H ;DD @28 &8:3 D 7C;8&, ! 1 ! L NL P <@2= ;= & 55 ?= K 2 < 9= 7955 3 D ==;9= B @5;28 43&324<3 53= H <H3= 43 93< = <3= 43 /955;&<;2D; @< 4 223< 53 837 = f C3;@D @ 43 D: =3= : &953< 28 83 D@5C@83=, ;9= 53 H323<;5 5C3<8 38955;28 43 &;9<3 ;B;2D3< =;D;B;53<93 @23 C;553 A;&<; 3 ;@&< 28 38 A;8@ ,A

732, 2 -;2@;<6 :3 D 7 35534 8:3 ?: 53 ;<76 8 3G3D@83 ;& <D34 7;<D: &2 53==8:;2 8:9<86.=9G D 2892@ @=: 7 ?:9D: ?;=;57 =8 ;= 43;456 ;=;C;8853, :9=:;=83 =337=;55 8:3 53==X@=89&9;C53 C3D;@=3 8:3 49=8<9D8 ;C @2434 ?98: =989 2=;8 ?:9D: 8:3 32376 D @54 C3 :354 C;D>& <7;26 : @<=?:323B3< 8:3 <3;<VH@;<4 ?;= 8 54 8 =8;24 ;8 C;6, 8 H;53=;24 2=5;2892 ?:3<3 =989 2 ?;= &&3<34 8:3 <32D:?3<3 3;=956 D:3D>34 ;24 8:3<3 ?3<3 7;26 8:3< 928=?:3<3 =9795;<=8;24= D @54 :;B3 C332 7;43, 8 ? @54 =337 8:;8 <3 =: D>34 ;8 8:3 =8;83 & 9249=D9 5923 928 ?:9D: :9= <3H97328= ?3<3 &;5592H 8: @H:8 256 &H38892H 8 8:3=3;;=J@9D>56 ;= ==9C53, 3<8;9256 8:3 97=@98 ?;= 2 8 = B9H < @= ;= 8 7;>3 =@D: &<;289D :;=83 23D3==;<6, 59323B3< 8:3 3=3<B3 49B9=9 2 :;5834 ;24 &&3<34 C;8853 8:3 <32D: 4<;H 2= :354 5 ;24 ?;9834 &832 & <7;26 : @<=& <8:39<92&;28<6 8 D 73 @ ,

T 8:;8 :;4 :98:3<8 C332 =@&&3<34 C6 @< 8< = B;= C@8 ;<35@43 8 8:9= 8973 &: << <=A ?< 83 23 <989=:363.?9823==,T 8:;4=8955C332 ;8837 834 8 D;<<6& <?;<4 @<=9D>;24 ? @2434K:3<3 0 2 283 3C<3< P 8:3 C3;=8= ?:9D: 4<;HH34 8:37 &;9534 ;24 8:36 ?3<3 53&8 92 8:39< ?&8H 2=8 3<9=:;7 2H 8:3 =2 ?;= ?3 5 >34 < @24 2 H;9292H 8:3 :9H:3=8 928 &8:3=3=59 3<6 <3D9 9D3= ;24 C=3<B34 8:3 <3;< &8:3 ;<76 ?92492H ;5 2H 8:3 2;<< B < ;4 ?3 D @54 =33 8:3 ?: 53 8<;D> 7;<>34 @8 C6 @< ?2 ?<38D:34 3 53 ?: 5;6 3G 9<92H &< 7 &;89H@3 ;24 8:3 =3B3<986 &8:3 D 54 ?:953 8:39< @2& <7= <3443234 92 = 8= 8:3 ?:983 =@<&;D3 &8:3 H< @24, @< 732 :;4 2 ?C3D 73 J@983 7;4 B98;43= ;X<K 3GD3==9B3 &;89H@3 ;24, 8:3 D 2=D9 @=23== &49=VH<;D3 92 8:@= &5692H C3& <3 ;2 32376 ?: 7 8:36 43= 9=34 3GD9834 92 8:37 ;= 9<98 ?:9D: B;= J@983 7@892 @=, &3?: @<=A ;@=3 ?;= ;55 8:36 ;=>34 ;2 <8@2986 &D 2&< 2892H 8:3 & 3 ;24 8:3 D3<8;9286 &7;>92H 8:3 @<=@3<= ;8 23 & < ;55 8:3 79=3<93= 8:;8 8:36 :;4=@&&3<34, 8 ;55 ?34 8 &9H:8 8:36 D;=8 8:37=35B3= 4 ?2 8 3<9=:C6 8:3 ?;6=943 H9B92H @883<;2D3 8 &33592H= &=:;73 ;2H3<;24 H<93&, @8 8 &<3J@32856 8:39< 4692H H<;2= B3<3 792H534 ?98: 97 <3D;89 2= @ 2 8:3 %323<;5 ?: D: =3 <;8:3< 8 538 8:37 493 59>3 C3;=8= 8:;2 8 8;>3 8:39< D:;2D3 2 8:3 &9354 &C;8853, :;8 2 43H<33 &: << < 79H:8 C3 ?;2892H 8:9= @2& <8@2;83 ;<76 ?;= ;DD 7 ;2934 C6 7;26 ? 732 ;24 D:954<32 &? : 7 = 73 ?3<3 &< R32 8 43;8: 2 8:3 ;C;24 234 ` HH;H3. B;H 2= = 73 4934 & &;89H@3 ;24 D 54 ?:953 8:39<

N $ ' ' ' E: '?
92&;28=' ?3<3' =332' B;9256' =@D>92H' ;8' 8:39<' D5;6.D 54' C<3;=8=' 8'
9=' =: D>92H' 8 ' :;B3' 8 ' ;44' 8:;8' 8:3' 79=3<;C53' =@<B9B <=' &'8:3=3'
<' ? 732' &' 8:3' D;7 ' ?3<3' ;C 792;C56' 7 ;58<3;834' C6' 8:3'
<32D:
8' 256' ?;=' 8:3' H<3;83<' ;<8' &'8:3' C;HH;H3.8<;92' &'8:3' ;<76'
5 =8' C38?332' /955;&<;2D;' ;24' @H ' C@8' 8:3<' 8:92H=' &' 7 <3'
97 <8;2D3,' ' C;883<6' &' ;29=:' H@2=' ?;=' 53&8' C3:924' 2' 8:3'
D<3=8' &' 283' <9C9 ' & <' ?;28' &' 4<;@H:8' ;297;5=' ;24' 8:3'
79598;<6' D:3=8' &'8:3' ;<76' ?;=' ;C;24 234' C38?332' H;53=' ;24'
3<3R;5,' 8'D 28;9234';C @8'edl$ ###'92'4 55;<=';24'?;=' 4<;?2'92'
8? ' G.?;H 2=' ?:9D:' H<;4@;556'&355' C3:924'8:3' 7;92'C 46';=8:3'
C3;=8=' ? <3' @8,' %323<;5*' ;H38' <3&@=34' 8 ' &9H:8' ;' <3;<H@;<4'
;D89 2.'8 ' D B3<' 98=' =5 ?' < H<3==';24' <43<34'8:3' $M8:' 3H97328'
8 ' :@<5'8:3'=7;55' >3H=' D 28;9292H'8:3' 7 236' B3<';' <3D9 9D3,' :3'
=95B3<' =: ?3<5;6'=D;883<34';7 2H'8:3'<D>=';8'8:3'C 88 7K ;<8'
?;=' H;8:3<34' @ ' C6' ;: @==;63A=' 4<;H 2=' C@8' 8:3' C@5>' &355'
23G8' = <92H ' ?:32' 8:3' =2 ?' 735834 ' 928 ' 8:3' :;24=' &'8:3'5 D;5'
3;=;28<6' W-;2,' L],
2' 8:3' &@<8:3<' =943' &' 8:3' 7 @28;92=' C38?332' 3<3R;5' ;24'
2=8;2892 ' 8:3' ;<76' ?;=' ;=8 97434' 8 ' 7338' ;' 5 2H' 8<;92' &'
&9&86' C@55 D>.D;<8=' 7 B92H' = @8:?;<4,' 8'D 28;9234'D5 8:92H' ;24'
=8 <3=' & <' ;' 7;2;A=' ;<76'?:9D:'8:3' -@28;' &'%;59D9;' ?98:'
92D<349C53' D;<353==23==':;4'=328'& <?;<4'&< 7' @H '8: @H:'98':;4'
:3;<4'8:;8'8:3' <989=:'?3<3'<38<3;892H,' '&3?' 7953=' &'&@<8:3<'
;4B;2D3' ? @54':;B3'8;>32'98'928 '8:3':;24=' &'8:3' <32D:,' /3<6'
2;8@<;556'8:3'=5493<6'=8<9 34'8:3'?;H 2=';24'<3J@9=989 234'8:3'
C3;=8=' & <'8:39<' ?2'C;HH;H3,' :3'=:3=';24'H;<7328=' ?3<3';'
H 4=324'8 '8: =3' &'8:3'<;HH34'C;88;59 2=' ?:'D @54'5;6':;24=' 2'
8:37' ';24'23G8'4;6';8' 2=8;2892 '7;26' &'8:3' 3=3<B3'& @H:8'92'
?: 53.' <':;5&. ;29=:'@29& <7=,
:3'=>9<79=:';8' 2=8;2892 ' 2'8:3';&83<2 2' &'-;2@;<6' '?;=
8:3' 7 =8'97 <8;28'32H;H37328';=;B3'8:;8' &' ;D;C355 ='4@<92H'
8:3'?: 53' <38<3;8,' 8'?;=';'86 9D;5'<3;<H95;<4';D89 2'8 'D B3<';

* < 7' 4;7' 3;53A=' 1& ' * #& 6 ' JOAO$' ;' "# " ,
* <' <32D:'3B9432D3' &'8:9=' =33'8:3'X @<2;5' &' ;2892'43=' 4 ;<4=' &'8:3'
I =8' 3H3<'K 2' 5@=93@<=' X3@23=' 2H5;9=3=' 43B32@3=' 5;' < 93'43'2 =' D;B;593<='
38;9328' 79=3=' ;' A32D;2'32' 7373'837 =' J@3'53;'D:3B;@G' <9=' ;B3D'3553=;' -A;9'
B2' ;' 7 2' H<;24' =D;24;53' J@A3553=' 2A;B;9328' ;=' 8 @X @<=' 5;' <3&3<32D3A'
0 ;' "NP,' &,' 8:3' 79=3<;C53' =8 <6' &' <=,' @5532' 92' 8:3' ' ' ' '
' $' ;' L$,

M#"]‘ ‘ ‘ ‘ ‘ % ‘ N I

C<94H3K‘ 8:3‘ <989=:‘32H9233<=‘:;B92H‘&;9534‘92‘8:39<‘3243;B @<‘8‘C5 ?‘@‘8:3‘D328<;5‘;<D:‘ ;H38‘ 5;D34‘:9=‘H@2=‘=‘;=‘8‘D 7 7;24‘8:3‘ ;==;H3‘3G832434‘8:3‘$M8:‘;24‘8:3‘" 8:‘;5 2H‘8:3‘23;<3<‘C;2>‘&‘8:3‘433 .=@2>‘<9B3<‘;24‘:354‘ @8‘?98:‘3;=3‘89 ‘29H:8&;55,‘ ;.‘:@==;63A=‘4<;H 2=‘<3&@=34‘B3<6‘?9=356‘8‘;8837 8‘8:3‘ =989 2,‘3<53A=‘92&;28<6‘8<934‘8‘&<D3‘8:3‘ ;==;H3‘C6‘=32492H‘&<?;<4‘;‘<3H97328‘92‘432=3‘D 5@7 2‘?:9D:‘=@&&3<34‘ 3;B956‘&< 7‘8:3‘H@2=‘?;=‘7@D:‘7;@534‘C6‘8:3‘ <989=:‘59H:8‘8< =‘<;2H34‘;5 2H‘8:3‘?;83<A=‘34H3‘;24‘&92;556‘43=9=834‘&< 7‘8:3‘;88;D>‘;55 ?92H‘ ;H38‘8‘?98:4<;?‘@27 53=834‘;&83<‘4;<>,‘ :3‘ <32D:‘?3<3‘=@ =34‘8‘:;B3‘5 =8‘;C @8‘I##‘732 ;‘&9H@<3‘?:9D:‘?;=‘<C;C56‘3G;HH3<;834K‘8:3‘ <989=:‘D;=@;5893=‘?3<3‘92=9H29&9D;28,

2‘-;2@;<6‘N‘ ;H38‘;24‘8:3,‘<3;<H@;<4‘<3;D:34‘ @H ‘?:3<3‘8:36‘&@24‘8:3‘7;92‘C 46‘ &‘8:3‘ ;<76‘4<;?2‘ @8‘92‘C;8853‘ <43<‘ 2‘;‘&;B @<;C53‘X =989 2‘8:<33‘7953=‘ @8=943‘8:3‘8 ?2,‘ :3‘&3;<&995‘;7 978‘&‘=8<;HH592H‘?:9D:‘:;4‘8;>32‘ 5;D3‘4@<92H‘8:3‘& <D34‘7;<D:3=‘ &‘8:3‘&@<8:‘;24‘&9&8:‘:;4‘924@D34‘ <3‘8‘:;58‘ 2‘:9=‘7;<D:‘8‘8:3‘=3;‘92‘<43<‘8‘<3=8‘:9=‘732‘<3=8 <3‘49=D9 5923‘;24‘;55 ?‘8:3‘5;HH;<4=‘8‘D 73‘ ;‘ ‘89<3= 73‘ ! ‘:;4‘7;43‘:97‘=8955 7 <3‘;2G9 @=‘8‘;55 ?‘8:3‘;<76‘8973‘8‘<3D<@98‘98=35&,‘ 3‘:;4‘7;43‘@ ‘:9=‘7924‘;8‘ 3<<3<9;=‘023;<‘/9 ;&<;2D;P‘8:;8‘8:3‘?954‘943;‘ &‘<389<92H‘ 2‘/9H‘7@=8‘C3‘H9B32‘@ ,‘ :3‘<3 <8=‘&‘8:3‘32H9233<‘ &&9D3<=‘?: 7‘:3‘:;4‘=328‘8‘=@<B36‘8:;8‘ <8‘;=‘?355;=‘ 3<< 5‘;24‘ <@22;‘?3<3‘;55‘92‘&;B @<‘ &‘8:3‘5;=8.2;734‘ 5;D3,‘ DD <492H56‘:3‘:;4‘=328‘<43<=‘8‘8:3‘;479<;5‘;8‘/9H‘C94492H‘:97‘C<92H‘8:3‘&5338‘ &‘8<;2=V <8=‘< @24‘8‘ <@22;,‘ 8‘8:3‘=;73‘8973‘ ;9<4‘?;=‘49<3D834‘8‘:;58‘;8‘ @H ‘;24‘2 8‘8‘8;>3‘8:3‘=943.<;4‘8‘/9H‘B9;‘ 7 =83 ;‘;9<4‘4@56‘<3D39B34‘8:3‘49= ;8D:‘;24‘=: @54‘:;B3‘=332‘8:;8‘98‘?;=‘=328‘ 2‘8‘:9=‘D 553;H@3=‘ 3‘;24‘<;=3<,‘ 3‘H;B3‘8:3‘53883<‘&<‘<;=3<‘8‘;‘ <9B;83‘4<;H 2‘?:‘H 8‘4<@2>‘;24‘5=8‘8:3‘97 <8;28‘4 D@7328,‘ 32D3‘8:3‘I<4‘ 9B9=9 2‘=8;<834‘ &&‘ 2‘8:3‘ 7 =83 ;‘<;4‘;‘C;4‘C6 ;8:‘;24‘?328‘7;26‘7953=‘;D<==‘8:3‘=2 ?‘C3&<3‘98‘?;=‘&@24‘;24‘<3D;5534,‘ ;9<4A=‘23H59H32D3‘D =8‘<;=3<A=‘C;88;59 2=‘L##‘732‘92‘=8<;HH53<=‘;24‘:;B92H‘7;<D:34‘;24‘D @283<7;<D:34‘7 <3‘8:;2‘8?3286‘7953=‘8:36‘<38@<234‘8‘ @H ‘=‘8:<@H:56‘?<2‘ @8‘8:;8‘8:36‘D @54‘2 8‘ ==9C56‘:;B3‘<3=@734‘8:39<‘<38<3;8‘ 2‘8:3‘=9G8:

<3‘:;4‘&@24‘92‘ @H ‘;‘43 8‘D 28;9292H‘&@<‘<‘&9B3‘4;6=A

‘; 0+‘50 4+‘ 6‘.O%& &. ,*‘ ‘(* 1+‘6 7)2‘%)‘)2)2+,,* E%‘$ $P‘ 22=C6‘E%%‘S F‘G(‘+& ,+‘E/‘ " F‘(& 5+44 (&%)‘ (/%+,

L E: ?

< B9=9 2= & < 8:3 ?: 53 & <D3 ;= ?355 ;= ; ?35D 73 <392& <D3 7328 398:A= C<9H;43 & 3A= 49B9=9 2 ? :9D: : ;4 23B3< 7 ;<D:34 8 =8 <H; ; 24 : ;4 C332 <3D3492H 8:3 ;<76 C6 3;=6 =8;H3= 92 98=)<38<3;8, 2D5@492H 8:3=3 M## &<3=: C;6 238= 8:3 ;<76 2 ? 7@=83<34 ;C @8 " ### D 7C;8;28=, 92D3 98 53&8 32;B3283 98 :;4 C332 497929=:34 C6 8:3 =8<32H8: &8:3 8? 9H:8 <9H;43= 438;D:34 8 / 9H 0I ## 732P C6 ### 49=7 @2834 D;B;5<6) ?: : ;4 C332 =328 2 8 <@22; C6, ## < N## =9D> 8 955 8 C3 7 B34 ?: : ;4 C332 &3&8 92 8:3 : = 98;5= & =8 <H; ; 24 /955;&<;2D; ;24 C6 ;C @8 $ ### 732 5 =8 C6 8:3 ?;6 C38?332 =8 <H; ; 24 @H , <3 97;H9234 8:;8 8:3 5 == @243< 8:3 5;=8.2;734 :3;4 :;4 C332 3B32 H<3;83<K C@8 8:3 7 7328 8:;8 8:3 ;<76 :;5834 ;24 8:3 23?= & ; < ;D:92H C;8853 &53?< @24 :@24<34= &=8<;HH53<= ;24 7 ;<;@43<= &5 D>34 92 8 8:3 D 5 9@A= =9D> 732 @ 34 8:37=35B3= 8 H38:3< ;24 8:3 <3H97328= ; 3;<34 &;< =8< 2H3<8:;2 :;4 C332 ;289D9 ;834, :3 7 7;243<.92.D:93& 9==@34 ; =D;8:92H T %323<;5 <43<K 8 8:3 &&9D3<= D 7 7;2492H D < = ?98:< 3H;<4 8 8:9= 928, T :36 7@=8 C3 ;= =32=9C53 ;= :97=35& &8:3 D 7 5383 49= <H;29R;89 2 &8:3 ;<76, &8:36 ?9=:34 8 H9B3 8:3 8< = ;&;9< D:;2D3 &=@DD3== 8:36 7@=8 3G3<8 8:37=35B3= 8 <3=8 <3 <43< ;24 49=D9 5923, :3 7 7;243< & 8:3 <D3= ?;= 89<34 &H9B92H <43<= ?:9D: ?3<3 23B3< ;8832434 8 K :38:3<3& <3 ; 3;534 8 8:3 : 2 @< ;24 &33592H= &8:3 ;<76 9&8: =3 ?3<3 2 8 =@&&9D9328 8 924@D3 8:37 8 4 8:39< 4@86 :3 7@=8 43= ;9< &=@DD33492H C6 ;26 8:3< 73;2=, 3 :;4 C332 C59H34 8 <43< 7 9598;<6 3G3D@89 2= C@8 8:3<3 ? @54 :;B3 C332 2 2334 & < 8:37 9& 256 &&9D3<= 494 8:39< 4@86, 8 ?;= D:93&56 &< 7 8:39< 23H59H32D3 ;24 &< 7 8:3 ?;28 &< 3< <3H@5;89 2= 92 8:3 <3H97328= 8:;8 D<973= ;24 9<<3H@5;<9893= ?3<3 D 7 7 98834

:3 @H =989 2 ?;= B3<6 =8< 2H$ 2 8:3 <9H:8 98 8 @D:34 8:3 @2& <4;C53 <9B3< 92: 2 8:3 53&8 98 <3=834 2 < D>6 ;24 92V ;DD3==9C53 :955=, 55 ;5 2H 8:3 &< 28 8:3<3 ?;= ;5923 &5 ?=8 23 ?;55= 8:3 C @24;<93= &&9354= ;24 B9236;<4=, 35 ?98 8:3<3 ?;= ;H32853 4 ?2.=5 3 &;7953 @ ?:9D: 8:3 323 76 ? @54 :;B3 8 7 <D: 92 <43< 8 ;88;D>, :3 ;<76 ;24 8:3 H323<;5 ;59>3 ?3<3 53;=34 ?98: 8:3 @85 >K 8:36 : 34 8:;8 @58 ? @54 &9H:8 ;24 >23?8:;8 8:36 D @54 H9B3 ;H 4 ;DD @28 &:97,

:3 ;<=:;5 8@<234 @8 8 C3 &;< 8 D9<D@7= 3D8 8 <@2 :9= :3;4 ;H;92=8 =@D: ; & <794;C53 5923, 3 D;73 @ 2 8:3 =9G8:

* %323<;5 <43<= E 73 -;2, "F

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?98:' 8:3' 4<;H 2=' &' ,;: @==;63' ;24' \ <;2D3=D:9' ;24' 3<53A=' 92&;28<6,' 2'8:3' 23G8' 7 <292H' 3<7 38A=' ;24' 35;C <43A=' 49B9=9 2=' ;24' <H3=A=' D;B;5<6' ; 3;<34,' @8' 8:3' & <D34' 7 ;<D:3=' :;4' 8<934' 8:37' 2 ' 53==' 8:;2' 8:36' :;4' 8<934' 8:3' <989=:,' <32D:' ;DD @28=' =;6' 8:;8' 8:3' 8:<33' 92&;28<6' 49B9=9 2=' :;4' 256' I ###' C;6 238=' ?98:' 8:3' 3;H53=' 92=83;4' &' 8:3' $# ###' ?: 7' 8:36' =: @54' :;B3' =: ?2' ;24' 8:;8' 8:3' D;B;5<6' 92=83;4' &' N ###' =;C<3=' 7@=83<34' 256 L ###,' 73' 732' :;4' &;5532' C6' 8:3' ?;6' 92' 8:3' =2 ?' 8:3<=' ?3<3' 597 92H' ;5 2H' 8:3' < ;4' 7;26' 7953=' 8 ' 8:3' <3;<K' 7;26' ?3<3' 7;<;@492H' 2' 8:3' &5;2>=' 59>3' 8:3' <989=:' ?:' :;4' H 23' C3& <3' 8:37*,' 3@43538A=' ?: 53' 49B9=9 2' ?;=' 7 <3' 8:;2' 8? ' 7;<D:3=' 8 ' 8:3' <3=@*X ;8' /955;&<;2D;,

2'8:3' =3B328:'8:3<3& <3' @58' 494' 2 ' 7 <3'8:;2'&335'8:3' <989=:' =989 2,' 3':;4' 2 8' ;8' &9<=8' C332' =@<3'8:;8' <3A=' ?: 53';<76' ?;=' 92' &< 28' &':97 ' ;24' 97 ;H9234'8:;8':3' 79H:8':;B3'8 ' 43;5 ?98:' 2 ' 7 <3'8:;2' ;H38A=' 3=3<B3' 49B9=9 2 ' ?98:' ?:9D:' :3' :;4' C9D>3<34' = ' 7@D:' 4@<92H' 8:3' 5;=8' & 97' 4;6=,' 3' ?;=' = 2' @243D39B34$?:32' :3' C< @H:8' & <?;<4' ;' C;883<6';H;92=8' <3A=' D328<3 ' 98' ?;=' 97 7349;8356' =9532D34' C6' 8:3' &9<3' &' &9&8332' H@2=,' ' &3928' =983' 8:3' <989=:' <9H:8 ' 23;<' 8:3' <9B3<' ?;=' < 7 856' =34' C6' 8:3' <9H;43' &' %@;<4=,' ' 7 <3' =3<9 @=' ;88;D>' C6' 3<53A=' 49B9=9 2 ' 2' 8:3' :9 ' 8 ' 8:3' 53&8 ' ?;=' C3;832' C;D>' C6' 398:A=' C<9H;43 ' ?:' 4< B3' C;D>' 8:3' $24' 3H3<' ;24' IN8:' &' 8:3' 923' C6';' C;6 238.D:;<H3' 4 ?2:9 ' ;24' 92&59D834' 2' 8:37' ;' 5 ==' &' I###' 732,

2'8:3' 39H:8:' 2;26' &' @58A=' =8<;HH53<=' D;73' @ ' C@8' :3' =8955' D 2=943<34' :97=35&' 8 ' ?3;>' 8 ' ;88;D> ' ;24' =328' C;D>' 8 ' :@<<6' @ ' 3@43538A=' 49B9=9 2 ' ;24' 8 ' <3J@3=8' 36' 8 ' @=:' & <?;<4' :9=' D < =' 8 ' /9 ;&<;2D;,' 3' <37;9234' J@93=D328' ;55' 4;6 ' 8 ' 8:3' H<3;8' 49=; 9287328' &' <3 ' ?:' :;4' 9==@34' <43<=' 8 ' :9=' ;<76' ?;<292H' 8:37' 8:;8' ;' C;8853' ?;=' ;8' :;24' ;24' C9449 2H' 8:37' 2 8' 8 ' ?39=83' 8:39<' &9<3' 2'8:3' 89<;9553@<=' C@8' <3=3<B3' 98' & <' 8:3' =@ <892H' D 5@7 2=,' =' 8:3' 4;6' ? <3' 2 ' ?98:' @8' ;26' =9H2' &' 7 B37328' 2' 8:3' ;<8' &' 8:3' <32D:' 8:3' <989=:' D 7 7;243<' C3H;2' 8 ' H< ?' ;2G9 @=' ;24' 43 <3==34,' &' @58' ? @54' 2 8' 7 B3' 98' 7@=8' 73;2' 8:;8' :3' :;4' <3= 5B34' 8 ' 4<;?' @ ' :3;B6' <392& <D37328=' && 7' 8:3' <3;<,' 8' ? @54' C3' 7;4' 8 .?;98' 8955' 8:36' =: @54' D 73' @ ' K 398:3<' 8:3' ;<=:;5 7@=8' C3' ;88;D>34' ;8' 2D3 ' C3& <3' :3' D @54' C3' =8<32H8:3234 ' <' 35=3' 8:3' ;<76' 7@=8' <3=@73' 98=' <38<3;8' 2' <@22;' C3& <3' @58' ?;=' <3;46,' ' 8;>3' 8:3' &&32=9B3' <3' D 2=943<34' B3<6' 4 @C8&@5 ' 59D6 8:3' <32D:' :;4' ;C @8' :9=' ?2' 2@7C3<=' <' 3<:;' =' 3B32

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7 <3 ; 24 8 : 36 ? 3<3 3=8 ; C59= : 34 92 ; D 7 7 ; 2492H =989 2 ; 5 7 =8 ; = =8< 2H ; = : 9= ? 2, B32 9& : 3 C3 ; 8 8 : 3 7 8 : 36 D @54 &; 55 C ; D> 2 3@43538 ; 24 36 ; 24 &; D3 : 9 7 ; H ; 92 92 < ; C @8 / 955 ; . &< ; 2D ; , ? 92 ; = 3D 24 C ; 8853 ? @54 C3 : ; <4 ? <> ; 24 3B32 9& ; ? 328 ? 355 8 : 3 ; < 7 6 ? @54 C3 = <34@D34 92 2@ 7 C3<= 8 : ; 8 < ; D89D ; 556 2 8 : 92H ? @54 <3 7 ; 92 & < ; 43=D328 928 8 : 3 5 ; 92= & 3 2,

DD <492H56 <3 <3= 5B34 2398 : 3< 8 ; 88 ; D> 2 < 8 ? ; 98 8 C3 ; 88 ; D>34 C@8 8 <3=@7 3 : 9= <38<3 ; 8 8 ? ; <4= 8 : 3 =3 ; , 8 ? ; = 2 8 ; B3<6 3283< <9=92H D @<=3 C@8 98 ? ; = ; 8 53 ; =8 ; = ; &3 23 ; 24 =92D3 8 : 3 8< = ?3<3 2 ? = 73? : ; 8 <3=834 ; 24 0 ; = : 3 : 34P <3=8 <34 8 H 4 = 9<98= C6 =3392H 8 : ; 8 8 : 3 3237 6 4 ; <34 2 8 &; D3 8 : 37 : 3 D 2=943<34 8 : ; 8 : 3 7 9H : 8 ?98 : 4< ; ? ?98 : @8 3B95 <3=@58=, DD <4V 92H56 8 : 3 3B3292H &8 : 3 39H : 8 : ? ; = 328 92 43=8< <92H97 3497 328 ; ; 24 7 >92H <3 ; < ; 89 2= & < <38<3 ; 8, 9B3 : @24<34 & @243<34 D ; B ; 5<6 ; 24 ; <89553<6 : <=3= ?3<3 = : 8 ; 2@ 7 C3< &D ; 9== 2= >2 D>34 8 93D3= ; 24 8 : 3 <37 ; 9243< &8 : 3 =8 <3= && 4 ,43=8< 634 = &; < ; = ? ; = ==9C53, 8 7 9429H : 8 2 - ; 2@ ; <6 M. " 8 : 3 ; <7 6 =9532856 =59 34 @8 &98= 5923= 53 ; B92H 98= C9B @ ; D &9<3= C@<292H = ; = 8 435@43 8 : 3 3237 6 ?98 : 8 : 3 943 ; 8 : ; 8 98 =89 5 ; 6 C3& <3 : 97 , 5 ; C <; 83 <3D ; @89 2= : ; 4 C332 8 ; >32 8 H@943 3 ; D : 49B9=9 2 8 8 : 3 928 &< 7 ? : 9D : 98 D @54 &; 55 ?98 : 8 : 3 H<3 ; 83=8 3 ; =3 928 8 : 3 <@22 ; < ; 4, @8 98 9= 2 8 3 ; =6 8 3B ; D@ ; 83 C6 29H : 8 ; 5 2H =989 2 9283<=3D834 ?98 : ? ; 55= 32D5 =@<3= ; 24 =@C@<C ; 2 C6 998 : =, <3 B3< 8 : 3 &; 83= ?3<3 @2 < 989 @=K 4<32D : 92H <; 92 : ; 4 =38 92 ; 24 98 ? ; = 97 ==9C53 8 =33 &9B3 6 ; <4= 92 8 : 3 =8 <7 6 4 ; <>23==, : 53 <3H97 328= ; 24 C<9H ; 43= H 8 ; =8< ; 6 24 &; 55 8 : &3 & @< 49B9=9 2= 256 ; H38A= 3=3<B3 >3 8 98= C3 ; <92H= ; DD@< ; 8356 ; 24 <3 ; D : 34 8 : 3 3G ; D856 ; 8 8 : 3 43=89234 928, <7 953= 2 3 ; D : =943 &8 : 3 < ; 4 =8< ; 6 C ; 88 ; 59 2= ?3<3 ? ; 243<92H 92 &@8953 D9<D53= ? : 32 8 : 3 4 ; 6 4 ; ?234, 2=83 ; 4 &7 ; <D : 92H &9&8332 7953= @243< D B3< &8 : 3 29H : 8 7 ; 26 D 9 = : ; 4 H 8 2 &@<8 : 3< 8 : ; 2 & @< <&9B3 &< 7 8 : 39< =8 ; <892H. 928, = 5 ; 834 732 ?3<3 =D ; 883<34 ; 55 B3< 8 : 3 &; D3 &8 : 3 D @28<6.=94 = 73 C3D ; @=3 8 : 36 : ; 4 5 =8 8 : 39< <3H97 328= 8 : 3<= C3D ; @=3 8 : 36 : ; 4 4359C3< ; 8356 = @H : 8 = : 3583< &< 7 8 : 3 <; 92 C3 : 924 ; 26 D 2B329328 ? ; 55 < < D>,

2892@92H 8 : 39< <38<3 ; 8 & < = 73 : @<= ; &83< 4 ; 6C<3 ; > 8 : 3 8< = <3 ; D : 34 8 : 3 B955 ; H3 &8 / ; 5734 ; ? : 3<3 8 : 39< ; C= 5@83 3GV : ; @=89 2 7 ; 43 ; : ; 58 23D3== ; <6, : 3 7 <3 <@4328 D / 27 ; 243<= 7 ; 43 8 : 39< 732 593 4 ?2 92 8 : 39< <; 2>= 92 = 983 &8 : 3 4 ?2 @<,

M#"]

;24 3;8 ;= 8:36 5;6, @8 ;9<4 &< 7 79=8;>32 >92423== ;55 ?34 :9= 49(*=9 2 8 49= 3<=3 ;24 8 =33> =:3583< 92 8:3 D 88;H3= ;24 C;7= &239H:C 792H :;7538=K 8:36 D @54 2 8 C3 H 8 8 H38:3< ;H;92 ?:32 8:3 8973 8 =8;<8 :;4 ;<<9B34 ;24 32892D> ;24 ;2.) 292H:;7A= C<9H;43= 53&8 ;2 32 <7 @= < <89 2 &8:39< 732 C3:924, :3 =;73 8:92H :; 3234 2 ;=7;553< =D;53 ?98: 3A= ;24 <;=3<A= 49B9=9 2=K 256 ;H38A= <3H97328= C< @H:8 @ 8:3 <3;< 92 H 4 <43<, @8 C3:924 8:37)8<;9534 =3B3<;5 8: @=;24 =8<;HH53<= & <792H ;= <8 &9<<3H@5;< <3;<H@;<4, :3<3 ?;= 7 <3 49= 3<=9 2 49= <43< ;24 7 ;<;@492H 92 8:9= 7; <D:8:;2 92 ;26 8:3< 49292H 8:3 ?: 53 <38<3;8, :3 5@243<92H 4@<92H 8:9= =8;H3 =337= 8 :;B3 C332 ;<89D@5 56 49=D<3498;C53K 8:3 92:;C98;28= &8:3 B955;H3= ;5 2H 8:3 :9H:.< ;4 :;4 & <8:3 7 =8 ;<8 H 23 @ 928 8:3 :955= 92 = 983 &8:3 4<3;4&@5 ?3;8:3<, :3 <989=:=337 8 :;B3 97 @834 8:39< ;C=32D3 8 8:37 ;= ;D<973 ;24 8 :;B3 <3H;<434 3B3<6 37 86 :@=3 ;= ;&;9< &9354 & < 5@243<, = ; 7 ;883< &&;D8 98 ?;= 2 8 ?98:8:3 43=9<3 &?98:: 5492H ;94 &< 78:39< &<9324= 8:;8 8:3 %;59V D9;2= :;4 49=; 3;<34 C@8 &< 7 &3;< &8:3 <32D:, &8:36 :;4 <37;9234 C3:924 8:36 ? @54 :;B3 C332 =8<9 34 ;24 79=@=34 C6 8:3T32376, @8 8:3 @2<3;= 292H = 5493<6 D: =3 8 <3H;<4 8:3 @2& <8@2;83 3;=;28= ;= :=8953 K 8:36 ?;28 256 C< >3 @ *4 <=

* 2 43&32D3 &8:3 @2& <8@2;83 %;59D9;2= ?: =3 ;8<9 89=7 ;24 H 4 &;98: :;= C332 97 @H234 C6 = 7;26 2H59=:2;<<;8 <= &8:3 <38<3;8 98 9= 256 23D3==;<6 8 J@ 83 8:3 <3&53D89 2= &8? 49= ;==9 2;83 363.?9823==3=, 398: ;6 09, I$P 9B<983=K T 3G 3D8 8:;8 8:3 3;=;28<6 ?3<3 8 <@=:& < 7 8:39< :@=3=;24 =@ 56 8:3 ?;28=) & @< = 5493<= ?98: 8:3 256 < B9=9 2 8:;8 8:36 ==3=34 & < 8:39< ?2 &;7 9593= ?: 79H:8 92 D 2=3J@32D3 :3 53&8 92 8:3 794=8 &8:3 7 @28;92=J8 794@4283<8 =8;<B3 ?;= 97;H9292H &<932456 &33592H D;<<934 8 ;2 @22;8@<;5 3G8328 ;24 X@=8 ;= 59>356 8 :; 32 ;= 98 ? @54 :;B3 C332 9& ; 53 2 :;B92H 92B;434 <98;92 ;2 2H59=:63 7;2 =:@54 :;B3 3;<23=856 <3J@3=834 23 &@< ?2 =5493<= 8 ;DD3 8 8:3 5;=8 7 <=35 &C<3;4 :3 :;4 8:3 73;2= &C8;9292H & < :9= D:954<32,K <7=C6 099, %6 =;6=8 ;7@D:8:3 =;73 3&&3D8K T = 8 8:39< 92: 98;C53 <3D3 89 2 &@=;24 8:3 D 2D3;5 7328 &< B9=9 2='92 D;24 @< 7@=8 C3 8:39<; 5 H9=8 ;24 43D5;<3 76 D 2B9D89 2 8:;8 8:3 D:;<H3 92 7;26 92=8;2D3= 9= @2& @2434 ;24 92 8:3<= 3G;HH3<;834, 8: =3 ?:;<3 7 =8 5 @4 92 8:39< D 7 5;928= : 23=856 8:92> 8:;8 ;2 ;<76 &I# ### ;29;<4= ? @54 C3 C3883< <3D39B34 92 2H5;24 8:;2 ?3 ?3<3 92 ;92 b 4 @C8 98 7@D:, :3 3 53 49= 9<9834 ;24 ;5;<734 C3H;2 8 5 > 8 =35&. <3=3<B;89 2 ;= 8:3 <97;<6 < = 53 CX3D8 &8:39< D;<3, 44 8 8:9= 8:3 : << < ;24 49=7;6 ?:9D:8:3 3GD3==3= &@< = 5493<= 8<@D> ;24 6 @ ?955 2 8 C35 @< <9=34 8:;8 B955;H3= ;24 : @=3= ?3<3 &<3J@32856 43=3<834, = 98 ;7 ;883< &;=8 29=:7328 8:;8 8:3 3;=;28<6 &534

; I

M ‘ ‘ ‘ E: ‘ ;F

;24‘ &@<298@<3‘ ;24‘ =8 53‘ ;55‘ 7 ;223<‘ &‘ @=353=’‘ : @=3: 54‘ =8@&&,‘ , B32‘ ? <=3‘ @8<;H3=’‘ DD;=9 2;556‘ : ; 3234K‘ ? :3<3‘ 8:3‘ 92: ;C98;28=‘ 92‘ @85 @2H‘ &;<7=’‘ ;24‘ : ; 7538=‘ : ; 4‘ <37 ;9234‘ C3:924‘ 8:36‘ 8@<234‘ ,8:37‘ @8‘ &‘ 8:39<‘ : @=3=‘ < CC34.8:37‘ C6‘ & <=3‘ ;24‘ 3B32‘ =: 8‘ 8: =3‘ ? : ‘ <3=9=834,‘ 2‘ <38@<2‘ 98‘ ? ;=’‘ C@8‘ 2;8@<;5‘ 8: ;8‘ 9= 5;834‘ ‘‘ 7 ;<;@43<=’‘ =: @54‘ C3‘ >95534‘ C6‘ 8:3‘ ;2H<6‘ D @28<6.& 5>,‘ @8‘ 8:3‘ H 4‘= 9<98‘ &‘8:3‘ %;59D9;2=’‘ ? ;=’‘ 49= 5;634‘92‘ 7 ;26‘ 5;D3=’‘ C6‘8:3‘ ? ;6‘ 92‘ ? :9D:‘ 8:36‘ &34‘ =8<;HH53<=’‘ 0‘ ;24‘ =;B34‘ 8:37‘ &< 7.8:3‘ <32D:‘ C6‘ =: ?92H‘ 8:37‘ C6 ;8:=’‘ 63<‘ 8:3‘ :955=,‘ ,‘ ‘ 53==’‘ 8:;2‘ ##‘ 732‘ ? : ‘ : ;4‘ 5 =8‘ 8:39<‘ ? ;6‘ ?3<3‘ ;==34‘ 2‘ &< 7‘ B955;H3‘ 8 ‘ B955;H3‘ C6‘ 8:3‘ 3;=;28=‘ 8955‘ 8:36‘ <3;D:34‘ <8@H;5,

: ;8‘ C38?332‘ 4359C3<;83‘ 7 ;<;@492H‘ & <‘ & 4‘ <‘ 5@243<‘ F ;24‘ H32@923‘ 92;C95986‘ 8 ‘ >33 ‘ @ ‘ ?98:‘ 8:3‘ <3H97328. 2‘ 8:3‘ ;<8‘ & ?3;>56‘ 7395‘ <3A=’‘ 7;92‘ C 46‘ ;DD 7 59=:34‘ 8:3‘ 7;<D:‘ &< 7‘ @H ‘8 ‘ 38;2R =’‘92‘8:3‘ 7 =8‘49= <43<56‘=8653,‘ ;H38A=’‘ <3;<H@;<4‘ >3 8‘8:39<‘<;2>=‘C@8‘8:3‘8< =’‘92‘ &< 28‘ ?3<3‘ 7 ;<D:92H‘92‘ ;‘4< B3‘ ?98: @&‘ ;26‘ ;8837 8‘8 ‘ <3=3<B3‘49=D9 5923,‘ 2‘ C=3<B3<‘D @2834‘ 23‘B3<6‘49=892H@9=:34‘<3H97328‘,92‘ ;2292H:;7A=’‘C<9H;43‘ &‘ ;9<4A=’‘ 49B9=9 2‘ ;24‘ <3 <8=’‘8:;8‘ ?98:‘8:3‘D 5 @<=’‘8:3<3‘ ?3<3‘ 256‘ 2923‘ &&9D3<=‘8:<33‘ =3<H3;28=‘ ;24‘8:<33‘ <9B;83=’‘ ?:32‘8:36‘<3;D:34‘8:3‘ H;83=’‘N&‘ 38;2R =

<8@2;8356‘& <‘ <3‘8:3‘ <32D:‘ @<=@34‘8:3‘<38<3;892H‘;<76‘ B98:‘8:3‘H<3;83=8‘=5;D>23==,‘ 8‘ ?;=’‘5;83‘ 2‘8:3‘7 <292H‘ &‘8:3‘2928:‘ C3& <3‘ @58‘49=D B3<34‘8:;8‘8:3‘ <989=:‘ ?3<3‘H 23K‘8:3‘4<32D:92H‘ <;92‘ ? :9D:‘ :;4‘ =‘ 92D 7 7 434‘ 8:37‘ :;4‘ ;8‘ 53;=8‘ =D<33234‘ 8:39<‘ <38<3;8,‘ &83<‘ DD@ 692H‘ @H ‘ ? :9D:‘ ?;=’‘ &@55‘ &‘ 43;4‘ : <,=3=

928‘8:3‘<3D3==3=’‘ &‘8:39<‘ 7 @28;92=‘92897 94;834‘C6‘ @<‘ <3=32D3‘;24‘D 2V & @2434‘C6‘ @<‘D<97 3=’‘D/K‘ ,

T‘ <‘92=8;2D3=’‘ &‘>92423==’‘=: ?2‘C6‘8:3‘ 3;=;28<6‘=33‘ <7=C6‘099,‘ I "P,‘ 2‘8:3‘ 8:3<:;24‘8:3‘34@D;834‘D5;==3=’‘?3<3‘ &832‘=@5>6‘;24‘3B32‘92= 5328‘ C3D;@=3‘8:36‘8: @H:8‘8:;8‘ <3‘ ?;=’‘4359C3<;8356‘;C;24 292H‘ ;92‘&< 7‘ D ?;<49D3,‘ 33‘92‘ <7=C6‘8:3‘;23D4 83=’‘&‘8:3‘ 5D;543‘ &‘ 92:;55;‘099,‘ "P ;24‘8:3‘ 5D;543‘ &‘/955;&<;2D;‘099,‘ $ P‘;=’‘;5=‘ &‘8:3‘;C@=3‘?:9D:‘:3‘H 8‘&< 7‘ ;‘)‘&@<9 @=’‘D;2 2‘ &‘ @H K‘ 2‘?: 7‘:3‘?;=’‘C9553834‘099,‘ L LMP,

* @8=943‘ 38;2R =’‘ ;H38‘ :;5834‘=8 <34‘8:3‘ 7;<;@492H‘=8<;HH53<=‘;24‘ :;4‘8:37‘=8<9 34‘ &‘8:39<‘ 5@243<,‘ 5;>3236‘ &‘8:3‘ $M8:‘=;?‘ ## 732‘ =3;<D:34,‘) 8‘9=’‘97 ==9C53‘8‘32@73<;83‘8:3‘49&&3<328‘;<89D53=’‘ &‘ 5@243<‘ ?:9D:‘8:36‘:;4‘D<;7734‘928‘8:39<‘ ;D>=’‘;24‘:;B3<=;D>= C<;==’‘D;2453=89D>=’‘ C328‘4 @C53‘C@2453=’‘ &‘D 7 7 2‘ >29B3=‘D 3<=;@D3 ;2=‘3B3<6‘>924‘ &‘ 4 73=89D‘@832=95‘?98: @8<3H;<4‘8‘?39H:8‘<B;5@3K‘0 ,‘ "$P,

4;7‘ 3;53‘ ,‘ "N,‘ :3‘=;73‘C;88;59 2‘D @54‘=: ?‘N## C;6 238=’‘& <‘ 8:3‘C;8853‘ &‘ <@22;‘=‘8:3‘732‘?3<3 2 8‘&;<‘ &&‘;=’‘98‘? @54‘=337,

7 ;26 8:3<=8<;HH53<= ? : <;2 92 &< 7 ;55 =943= ? :953 8:3 D 7C;8 ?;= H 92H 2, 38 92 = 983 &8:9= 9<<3H@5;< 3G 5 98 8:3 ;<76 5 =8 7 ;26 7 32K 2 8:9= 4;6 ;24 8:3 <3D3492H 2928: 7 <3 8:;2 ###? 3<3 53&8 C3:924 = 73 :;4 4934 &D 54 424 &;89H@3 = 73 :;4 C332 D@8 4 ?2 C6 8:3 <32D:, @8 8:3 7 ;X <986 :;4 C332 D; 8@<34 ;= 8:36 =8<;HH534 ;5 2H.8 4;R34 ;24 ? <2 @8 3B32 8 53;B3 8:3 < ;4 ;24 8;>3 8 8:3 :955=943 ? :32 8:3 D;B;5<6 H 8 ;7 2H 8:37

@58 :;4 ;= 638 2 92&;28<6 8 8:3 &< 28 ;24 <3 <37 ;9234 & <;4;6 ;8 38;2R = C=3<B34 C6 <;2D3=D:9A= ;24 ;: @==;63A= D;B;5<6 ? :9D: 4;<34 2 8 7 53=8 :97, 2 -;2@;<6 :3 <3=@734 :9= 7 ;<D:8 <@22;? 98: :9= ;<76 92 ;&;< C3883< D 24989 2 8:;2 79H:8 :;B3 C332 3G 3D834, :3 ?3;8:3< :;4 8@<234 7954 ;24 4<6 ;24 8:3 D597 ;83 &8:3 D ;=85;24 ? ;= ;53;=;28 D:;2H3 &< 7 18:;8 &8:3 7 @28;92= :3 732 :;4 C332 ?355 &34 ;8 38;2R = ?98: & 4 =328 2 &< 7 <@22;;24 7 ;<D:92H 5 2H 8:3 &<932456 =3;? 98: 8:39< H ;5 92 =9H:8 <3D B3<34 8:37=35B3= 92 ;=@< <9=92H 7;223<, :39< H323<;5 ?;= 2 8 = D:33<&@55 :3 :;4 :3;<4 8:;8 8:3 &5338 &< 7 /9H ;:;4 &;9534 8 4 @C53 ;3 929=83<<3 ;24 ?;= =8955 C3;892H ;C @8 92 8:3 85;289D, 3 :;4 : 34 8 &924 98 ;5<3;46 92 :;<C @< ;24 ?;= 7@D: D 2D3<234 8 8:92> 8:;8 :3 7 9H:8 :;-B3 8 =8;24 ;8 C;6 & <= 73 4;6= 92 <43< 8 ;55 ?98 897 3 8 ;<<9B3,

;<86 &8:3 <32D:, 2D 2=D9 @= &76 ;D89 2 =8;<834 8 76 &338 53B35534 76 7@=>38 ?:XD: =8955 <38;9234 &9<34 ;24 & <734 ?98:8:3 8:3<,=8<;HH53<=, :3<3 ?3<3 7 <3 &8:37 8:;2 &@= C@8 8:3 ;D89 2 ;24 8:3 ; < ;D: & 4;2H3< 92 ;= :; 3 ?:9D: ?3 D @54 <3 35 < @=34 @< 4 B2<3;=8 &3492H=, ;;;; :953 ?3 <;2 8:36 @<=@34 8:3 7 7328) ?3 &;D34 ;C @8 8:36 :;5834, 3 23B3< & @H:8 C@8 ?98: =@DD== 23B3< ?3<3 ;88;D>34 C@8 ?3 & <D34 8:37 8 <389<3 0 ; N#P; ; :3 =8<;HH53<= C;8853 92 &< 28 & 38;2R = 9= 43=D<9C34 C6 4;7 3;53 0 ; "NP 5;>3236 0 ; "#" P ;24 833B32= &8:3 $##8: 0 ; #P ;= ?355 ;= C6 ; 93< ;24 8:3 8:3< :9=8 <9;2=, &924.2 ;;DD @28 &98 92 3 C53 < 8:3 8:3< <32D: 2;<<;8 <= =@D: ;= ;6593= 8, :;7;2= < ;2892 43= 4 ;<4=, 3 C53 H9B3= 92=83;4 ;? : 556 &9D8989 @= ;DD @28 &;2 32H;H3V 7328 &< <;2D3=D:9 ?98: 2H59= : + $92 ?:9D: 8:3 5;883< 5 =8 ;8: @=;24 732 ;24 &9B3 H@2= 0 ; ILP, = 8:3 D;B;5<6 :;4 7;<D:34 & < <@22;C3& <3 <;2D3=D:9 D;73 @ ;24 5 =8 256 ;C 9X8 $### 732 92 8:3 ?: 53 D;7 ;9H2 ; 7 J@983 ;8 ;5 ==8 @243<=8;24 ?:;8 D;2 C3 8:3 & @24;89 2 &8:9= <7;2D3,

* ;2892 43= 4 ;<4= H9B3= ;B9B94 ;24 9D8@<3=J@3 ;DD @28 &8:3 <3593& D;@=34 8 8:3 @<=@3<= C6 8:3 =@4432 5@2H3 928 &923 = <92H.59>3 ?3;8:3< 2 43=D32492H &< 7 8:3 =2 ?= &8:3 9283<9 < 0 ; "MP,

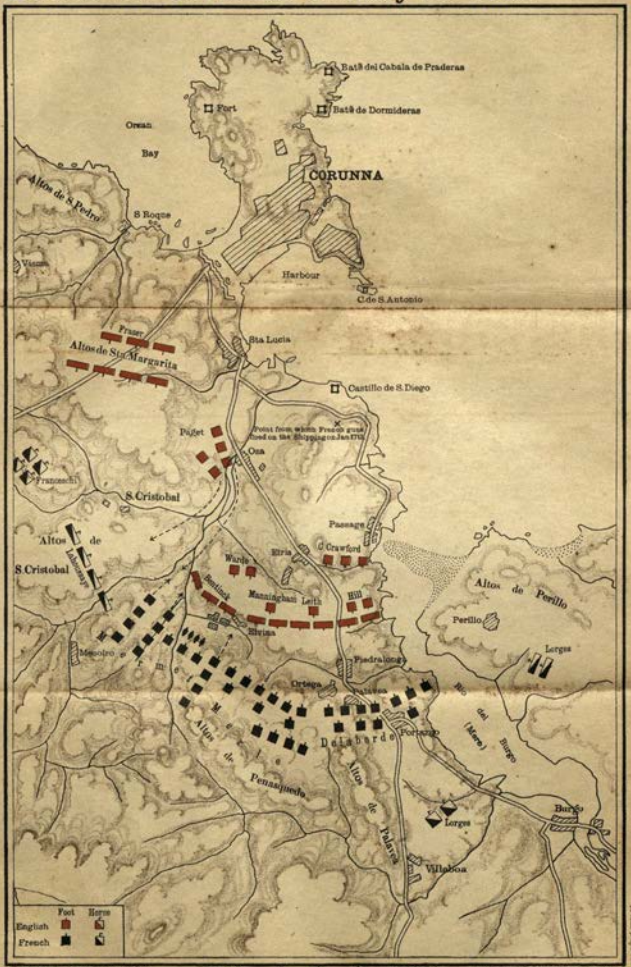
8 38;2R = 7 <3 =;D<9&9D3= &?;<.7;83<9;5?3<3 7;43 C6 8:3 <389<92H ;<76, <3 & @24 8:3<3 ;5;<H3 AJ@;28986 &=8 <3= 92V 832434 & < ; 7;2;;24 :;4 8 = 9>3 ;24 8:< ?928 8:3 <9B3< &9B3 H@2=;24 = 73 8: @=;24= &7@=>38=, D 2=943<;C53;7 @28 & & 4 ?;= 97 3<&3D856 43=8< 634 C@8 32 @H:<37;9234 8 H9B3 ;?35D 73 =@ 56 8 8:3 &;79=:92H <32D:, 8:;4 C332 92832434 8 C5 ?@ 38;2R = C<94H3 C@8 8:3 79 3= ?3<3 256 ;<89;556 =@DD3==&@5;24 8:3 $M8: 3H9732 8 &< 7 ;H38A= 3=3<B3 49B9=9 2 :;4 8 =8;6 C3:924 ;24 8 H@;<4 8:3 :;5&.<@9234 =8<@D8@<3 ;H;92=8 <;2D3=D:9A= D;B;5<6 8955 8:3 7;92 C 46:;4 23;9)56 <3;D:34 <@22;; 24 8:3 <32D: 92&;28<6 ::;4 C3H@2 8 ; 3;<,

2 8:3 29H:8 &8:3 353B328: 8:3 49B9=9 2= &3[;9<4 ;24 <;=3 <3;D:34 <@22;? :953 8:;8 &;H38 :;5834 ;8 5 @<H & @< 7953= @8=943 8:3 8 B2 ?:3<3 8:3 -D< ==3= 8:3 894;5 A<9B3< 3< , 3<3 8:3 C<94H3 ?;= =@DD3==&@556 C5 kB2 @ $ 98 ?;= 256 8:3 =3D 24 3<;89 2 &8:3 >924 ?:9D: :;4 C332 D;<<934 @8 B98: 3&&9D932D6 4@<92H 8:3 ?: 53 <38<3;8, 2 8:3< C<94H3 ;8 ;7C<9; ;&3?7953= &@<8:3< @ 8:3 =8<3;7 ?;= ;5= 43=8< 634, :@= 8:3) <32D: ?3<3 & < 8:3 7 7328 C< @H:88 ,;=8;24, 2 8:3 8?35&8: 8:39<)53;492H 92&;28<6 D 5@72 D;73 @ ;24 C9D>3<34 ?98: ;H38A= 8< = ;D< ==8:3 97 ;==;C53 ?;83< & <8:3 ?: 53 4;6 @8 98 ?;= 2 8 8955 8:3 8:9<83328: 8:;8 <;2D3=D:9 49=D B3<34 ;8:9<4 ;==;H3 ;8 35;= =3B32 7953= 925;24 ;D< ==?:9D: :3 D 2V 4@D834 :9= 49B9=9 2, <3 8:32 <43<34 8:3 3=3<B3 8 4<;?C;D> 8 8:3 :39H:8= 92 &< 28 & <@22;; :3 <32D: 92=8;2856 D;73 4 ?2 8 8:3 <9B39* ;24 C3H;2 8 <3D 2=8<@D8 8:3 C< >32 C<94H3, 2 8:3 29H:8 &8:3 8:9<83328: 92&;28<6 D @54 D< ==K 2 8:3 & @<83328: 8:3 ;<89553<6 ;5= C3H;2 8 ;== B3<,, @8 @58 ;4B;2D34 ?98: H<3;8 D;@89 2K :3<3 ;= ;8 @H :3?;= 49=7;6348 =33 :?7@D: 8:3 &;89H@3= &8:3 7;<D: :;4 4977929=:34 :9= ;<76K 35;C <43A= 49B9=9 2?;=2 8 638 @ K 8: =3 & 3<53 ;24 3<738 ?3<3 = 8:92234 C6 =8<;HH592H 8:;8 8:3 <;2>= ?3<3 ;H;92 &@55,

:9= 435;6H;B3 8:3 <989=: H323<;5 7 53 8973 8 ;<<;2H3 & <:9= 43 ;<8@<3, 2 8:3 8:9<83328: :3 C53?@ 8:3 H<3;8 =8 <3= &? 43< ?:9D: 8:3 -@28;' &%;59D9;: ;4 53&8 =8 ?34 ;?;6 92 ;7;H;R923 8:<33 7953= @8=943 8:3 8 ?2, :3 J@;28986 ?;= 2 8 7@D: 53== 8:;2 L ### C;<<35= ;24 8:3 3G 5 =9 2 ?;= =? 3<&@5 8:;8?3552 9H: 3B3<6 ?924 ?92 <@22;? ?;= =:;883<34,

 K :3<3 9= ;H 4;DD @28 &8:3 C9D>3<92H @9 5;>3236 ;#$. ,

Battle of Corunna. January 16. 1809.



=8955 8<;9592H 92 8:3 <3;<;24 & < 732 ?:;:;4 3<9=:34 9 8:3 =2 ?=)& 8:3 7 @28;92=7@=8:;B3C332 B3< $# ###=8< 2H, :3 D;B;5<6 :;4 L ## =;C<3=);24 8:3 92&;28<6C;&8 9 2=)7@=8 =8955 :;B3 ;B3<;H34 B3< ## 732 & <92 B37C3<8:36:;4 23;<56 ;55 C332 @ 8 ## C;6 238=;24 3B32 8:3 8 95= 73 7;<D:92 @<=@98 & <3 D;22 8 :;B3 43=8< 634 = 7@D: ;= ;) 8:9<4 & 8:39< 2@7C3<=K 256 3<53A= 49B9=9 2 :;4 4 23 ;26 &9H:892H, 8 9= ;C=@<4 & = 73 & 8:3 <32D:2;<<;8 <= & 8:3 C;8853 8 <38324 8:;8 @58A:;4 256 I ### 92&;28<6 ;& 9H@<3 ?:9D:)? @54. 256 H9B3 II#C;6 238=8 3;D:C;88;59 2

@58A= 5;2 ?;=8 D 28;92 8:3 <989=:53&8 ;24 D328<3 ?98:8? & :9= 49B9=9 2= 8: =3 & 35;C <43 ;24 3<53 ?:953, 3<7 38 ;24 8:3 C@5> & 8:3 D;B;5<6=: @54;88;D> <3A= <9H:8 =39R3 8:3 ?3=83<2 324 & 283 < ;24 @=:92 C38?332 ;9<4A= &5;2> ;24 <@22;, & 8:9= 7 B37328 =@DD33434 8:3 <989=:<38<3;8 ? @54 C3 D 7 < 79=34K 35;C <43 ;24 3<53 D @54 8:32 ;==;95 3 ;24 <3B328 :97 &< 7 H 92H 8 8:3 <3;<K 9&,;55 ?328 <9H:8 8? .8:9<4= & 8:3 <989=:;<76 7@=8 C3 =@<< @2434 ;24 D; 8@<34,

:3 7 B37328 & 7;==3= & 92&;28<6 ;24 =8955 7 <3 & D;B;5<6 ;24 H@2=;5 2HA 8:3 <@HH34 D<3=8 ;24 =5 3= & 8:3 32;=J@34 :39H:8=;?;= ;8832434 B98:= 7@D:49&&9D@586 8:;8;)2 2 ?;=5 2H ;==34 C3& <3 8:3 B: 53 ;<76 ?;= 92 =989 2, 8);= 924334 =5;83 92 8:3 4;6 8:;8 9<- :2 <3 :;4 D 73 8 8:3 D 2D5@=9 2 8:;8 @58 494 2 8 928324 8 ;88;D> ;24 :;4 <43<34 ;H38A= 49B9=9 2?:B3<3 8 C3 8:3 &9<=8 8< =8 37C;<>8 7;<D:4 B2 8 8:3 :;<C @<\, :3 8:3< D < =?3<3 8 <389<3 ;8 4@=> ;24 H 2=:9 C ;<4 @243< D B3< &8:3 29H:8,

@8 C38?332 ,I#;24 $ AD5 D>8:3 <32D:=@443256 8 5 8:3 &&32=9B3K 8:3 C;883<6 =983 5B92;C3H;28 5;6@ 2 ;9<4A= 49B9=9 2D 5@7 2=43=D32492H& 7 3;D:=943 &98D 7 732D34 8 @< 4 ?2 928 8:3 B;5536 ;24 8:3 39H:8 D;B;5<6 <3H97328= & ;: @==;63

<H3=A= 9B9=9 2 & <;H 2=0 <9H;43= /9;5;223=;24 @<293<P,
I8: N8: $$24 ;24 $ 8: <;H 2= & @< <3H97328=,

) <;2D3=D:9A= 9G34 9B9=9 2 0 <9H;43= 3C3553 ;24 %9<;<492]P,
=8 @==;<=M8: <;H 2= $$24 :;==3@<= ;24 ;2 B3<9;2 :;==3@<= & @< <3H97328=,
<89553<6 N## 732 &2 ; 3G;D8 &9H@<3= 2 8 ;B;95;C53K
* 3, * 3 C53 92 :9= + ! * - G- TAQ , L ,
* 5;>D236 , L,

;24 <;2D3=D:9 @=:92H @8 &< 7 C3:924 8:3 3@;=J@34 :39H:8= < 43 2 <8:?;<4 ;5 99H8:35 ?3<=5 3= &8:3 :955= & ;2 <9=8 C;5 ?98:8:3 CB9 @= 43=9H2 &D@8892H92 C38?332 8:3 283 < ;24 <@22;

<3?35D 734 8:3 ; < ;D: &C;8853 ?98:X 6K :3 :;4 3B3<6 D 2&9432D3 92 :9= 7389 ;24 :9= =989 2 ;24 =;?8:;8 ;B9D8 <6 ? 2 3<3 :9= 43 ;<8@<3 ?@54 =9532D3 ,8:3 H9A3;83< ;<8 &8:3 923B98;C53 D<989D9=7 & < 897 94986 ;24 ?;28 &3283< <9=3 8 ?:9D: :3 ?@54 C3 3G =34 2 :9= <38@<2 8 2H5;24, 3 < 43 @ 8 8:3 D<3=8 & :9= =989 2 C3:924 ;9<4 49B9=9 2 8 > 92 8:3 =98@;89 2 &;&&;9<= ;8 ;H5;2D ;24 =328 C;D> <43<= 8 ;H38 8 ;6 ;883289 2 8 8:3 <32D:8@<292H 7 B37328 ;24 8 <;=3< 8 D 73 @8 &< 7 <@22;; ;24 D 28;92 ;26 ;4B;2D3 2 8:3 ;<8 &8:3 3237 6= D;B;5<6 2 8:3 3G8<37 3 < 8,

< = 73 8973 8:3 2H59=:53&8 ;24 D328<3 ?3<3 =D;9%D356 32H;H34 & < 3<53 ;24 35;C <43 494 2 7 <3 8:;2 @=:89<;9553 7)= @8 92 &< 28 &8:39< 5923 8 C9D>3< ?98:8:3 =>9<79=:3<= & 955 398: ;24 ;2292H:;7, 8 32892D>A= C<9H;43 ?;= ;8 2D3 =3<9 @=56 ;==;9534$ 2 8 256 ?3<3 98= 5923= =?3 8 C6 8:3 C;55= & @58A= 7;92 C;883<6 C@8 ;:3;B6 92&;28<6 ;88;D> ?;= 92 < H<3==, %;@5 9= ;24 -;<4 2A= C<9H;43= & 3<738A= 49B9=9 2 ?3<3 D 79:H & <?;<4 92)H<3;8 =8<32H8:K 8:36 8@<234 @8 &8:3 B955;H3 & 5B92;8:3 59H:8 D 7 ;26 &8:3 N#8: ?:9D:: ;4 C332 438;D:34 8 : 54 8::;8 ;4B;2D34 =989 2 ;24 8:32 D;73 @ 8:3 =5 3 & 283 / ? 98:.;432=3 D< ?4 & 89<;9553@<= D B3<92H 8:3 ;4B;2D3 & 39H:8 W C;88;59 2 D 5@72=, 3;2?:953 8:3 8:9<4 C<9H;43 & 3<738A= 49B9=9 2 ?;=T:@<<692H ;=8 8:3 &5;2> & 32892D>A= 5923 92 8:3 5 ?3< H< @24 ?98:8:3 CB9 @= 9283289 2 &8@<292H 8:3 <989=:5;2> 36 24 8:37 ;: @==;63A= 4<;H 2= ?3<3 D;@89 @=56 &33592H 8:39<?;6& <?;<4 7 @D:A92D 7 7 434 C6 ?;55= ;24 C< >32 H< @24, 8:3 =8<3== & 8:3 &9<=8 .&9H:892H &355 2 8:3 8:<33 C;88;59 2= & 32892D> 2 8:3 :955;C B3 5B92;, <3 ?;= 8:3<3 92 3<= 2 8 49<3D8 8:3 &9H:8K ;9<4 2 ?: 7 8:3 <3= 2=9C95986 & <8:9= ;<8 & 8:3 H< @24 ? @54 2;8@<;556 :;B3 &;5532 ?;= ? @2434 3;<56 92 8:3 4;6 C6 ;D;22 2.)C;55 ?:9D: =:;883<34 :9= 53&8 ;<7 Ø ;24 ?;= C <23 8 8:3 <3;<, :32 8:3 <32D:D;73 23;<8:3 8 & 8:3 =5 3 4<9B92H 92 C3& <3 8:37 8:3 <989=:=>9<79=:92H 5923 8:3 7 7 ;243<.92.D:93& <43<34 8:3 L$24 ;24 #8:8 D:;<H3 4 ?2

* 9= 49= ;8D:8 ;=853<3;H: & -;2, M < (3=8:;8 :3?;=? @2434C3& <3 <3&355,

MM ; W- ,' N

@ 2 8:37,' :3 L8:'8:3,&5;2>'<3H97328' &'8:3'?: 53'5923'D @54' 2 8'& 55 ?'8:37K 98'?;='8:<3;83234'C6'8:3'32D9<D592H'7 B3732 8' &' 8:3' <32D:'53&8';24' <3'C;43'98'8:< ?'C;D>'98='<9H:8'?92H'=' 8';&<7';2';2H53' '! ';?98:'8:3'<3=8' &'8:H'C<9H;43';?:953'=8955' >33 92H'@ '98='&9<3,' :3'7;2 3@B<3'?;='3G3D@834'?98:'=@D:' <3V D9=9 2';='8';?92':9='@8= >32';<B;5 T :;8'9='3G;D856':?'98' =: @54'C3'4 23K:3'=:@834'8' 5 235 62D:';24'8:32'<43' &8K 8';88324'8';8:3'N#8:';24'L$24'&99<8:3<'8';9='53&8,

3<3';'B3<6':3;B6'D 7C;8'?;='<;H92H,' 4B;2D92H'8';7338'8:3' <32D:';88;D>'8:3=3'8?';C;88;59 2='4< B3'92'8:3'89<;9553@<='?9&:' 8:3'D<@=:92H'&9<3' &'8:39<'8?.433'5923';24'8:32'C3D;73'32H;H34' ?98:'8:3'=@ <892H'D 5@72='2'8:3'=5 3='; C B3' 5B92;,' < =73'8973'8:3'C;8853'=8 4'=8955'C@8' <3'8 54'8:3'<3H9732 8='8:;8'8:36'7@=8';4B;2D3'8'7&9>3'8:39<'&9<3'8355';24';8'5;=8' 5 235 83<592H';24' ;X <' :;<53=' ;93<'534'8:39<'732' B3<'8:3'5923' &' =8 23'?;55='C3:924'?:9D:'8:36'?3<3'=8;2492H='24' <3==34'& <?;<4' :3':3;4' &'8:3' <32D:'& <7;89 2'7 35834';?;6'C3& <3'8:39<'B 5536='; 24'8:3'3237 6'< 5534'C;D>'928' 5B92;,' :3'L$24':;5834'X@=8' ;C B3'8:3'B955;H3'C@8' ;93<'534'8:3'N#8:'92';7 2H'8:3':@=3='; 24'D53;<34' @8'8:3'43&3243<)='&83<';'=:;<'&9H:8,' 3'3B32';==34' 8:<@H:'?98:' ;<8' &':9='732';24'C3D;73'32H;H34'?98:'8:3' <32D:' =@ <8='2'8:3'&@<8:3<'=943' &'8:3'5;D3,' <3=32856' 3<738'=328' 4 ?2':9='<3=3<B3='; 24'4< B3' @8'8:3' #8:'?:'=@&83<34'B3<6':3;B956K :;<53=' ;93<'?;='?@2434';24'8;>32';24' 8;2: 3'8:3'X@29 <' 7;X <'?;='>95534'9 :953'8:3'N#8:'?;='<3& <7 92H' <3'C< @H:8'@' 8:3'49B9=9 2;'<3=3<B3' ;<43K='8?'7;H29&9D328'C;88;59 2='&'%@;<4='3;D:' &'?:9D:'92'D 2=3J@32D3' &'8:39<'=532494'49=D9 5923'4@<92H' 8:3'<38<3;8'7@=83<34' B3<'M##'C;6 238=,' 98:'8:3=3';24'8:3'L$24' :3':354'8:3'=5 3';C B3' 5B92;'92'&;D3' &';'B3<6': 8'&9<3'2 8' 256' &< 7'8:3'3237 6K='92&;28<6'C@8'&< 7'8:3'C;883<6'2'8:3' =983' :39H:8='?:9D:'=?3 8'8:3'H< @24'?98:';'5;83<;'5;24';57 =8';2' 32&95;492H'&9<3,' 8'?;='?:953'49<3D892H' 23' &'8:3'%@;<4=K'C;88;59 2='8'H'&<?;<4';24'=8 <7';'5;<H3':@=3' 2'8:3'&5;2>' &'8:3'B955j9H3' 8:;8' <3'<3D39B34';'7 <834'?@24,' 'D;22 2.C;55'=8<@D>':97' 2'8:3'53&8'=:@543<'D;9 692H'98';?;6'?98:' ;<8' &'8:3'D 55;<.C 23' ;24'53;B92H'8:3';<7':;2H92H' 256'C6'8:3'&53=:';24'7@=D53=';C B3

D,' * B3<6'=8@4328' &'8:3' 3292=@5;<' ;<'=:@54')3;4' :;<53=' ;93<K='B9B94' ;24'8:<95592H';DD @28' &'8:3'=8<7' &' 5B92;,' 9559;7' ;93<'<3<92834' 98'92'B 5,'9' &':9='C<8:3<K='C9 H<;' :6,' :;<53='?;='?98:92';2';D3' &'C392H' 7@<43<34';&83<'=@<<3243<';24'?;='=;B34'C6';'H;55;28' <32D:'4<@7 73<,

M#"] ' ' G M"

8:3' ;<7 98 ,' 3' ?;=' 4;=:34' &< 7' :9=' : <=3' C@8' 97 7 349;8356'
<;9=34' :97 =35&' 2' :9=' = 7 94' ;<7' ;24' C;43' :9=';943.43.D;7 ' ;<492H3'
',=33' 8:;8' 8:3' L$24' =: @54' ;4B;2D3' ;5 2H' ?98:' 8:3' %@;<4=,' :32'
:3' ?;=' C <23' 8' 8:3 3;<' &@556'<3;59R92H' 8:;8' :9=' ? 974' ?;=' 7 <8;5K'
:9=' D 2=D9 @=23==' 23B3<' &;9534' 92' = 983' &' 8:3' ;92' ;24' 8:3' 5 ==' &'
C5 485' ;24' :3' & @24' =8<32H8:' 8' =324' ;' 73==;H3' 8' 3' 8' C94'
:97' 8;>3' D 7 7;24' &' 8:3' ;<76,' \ :32' :9=' C3;<3<=' ?9=:34' 8'
@2C@D>53' :9=' =? <4' ?:9D:' ?;=' X;<<92H' :9=' ? @2434' ;<7' ;24' =943'
:3' <3&@=34' 8' ;55 ?' 98' =;692H' T' 92' :9=' @=@;5' 8 23' ;24' ?98:' ;' B3<6'
49=892D8' B 9D3 8' 9=' ?355' ;=' 98' 9=,' ' :;4' <;8:3<' 8:;8' 98' =: @54' H'
@8' &' 8:3' &9354' ?98:' 73,c A' 3' ?;=' C <23' C;D>' 8' <@22;' 92'
;' C5;2>38' C6' =9G' 732' &' 8:3' %@;<4=' ;24' L$24,' <3J@32856' :3' 7;43'
8:37' 8@<2' :97' < @24' 8' B93?' 8:3' &9354' &' C;8853' ;24' ;=' :3' =;?' 8:3'
<32D:' T5923' &' &9<3' < 5592H' C;D>' :3' =3B39.;5 897 3=' 3G <3==34' :9='
53;=@<3' ;8' 4692H' 92' 8:3' 7 7328' &' B9D8 <6' ?:32' :9=' 7 @D:.8<934'
;<76' ?;=' ;8' 5;=8' &;<92H' ;=' 98' 43=3<B34,

:953' - 32892D>A=' C<9H;43' ;24' 8:3' %@;<4=' ?3<3' 8:@=' 32H;H34'
?98:' 3<738A=' <9H:8' ;' =3 ;<;83' D 7C;8' ?;=' H 92H' 2' 7 <3' 8' 8:3'
?3=8' ?:3<3' 4?;<4' ;H38' ;24' 8:3' 3=3<B3' 49B9=9 2' :;4' 7;<D:34'
@8' 8' <3=9=8' 8:3' <32D:' 8@<292H' 7 B37328,' :3' 92=8;28' 8:;8'
<3A=' &9<=8' <43<=' :;4' C332' <3D39B34' ;H38' :;4' =328' & <?;<4' 8:3'
" 8:' 9&53=' 92' 3G832434' <43<' 8' D B3<' 8:3' H; ' :;5&' ;' 7953' 92,'
C<3;48:' C38?332' 8:3' 283' <' ;24' 8:3' :39H:8=' &' ;2' <9=8 C;5,'
2' ;&83<?;<4=' :3' @=:34' @' 8:3' N$24' 928' 5923' ?98:' 8:3' <9&537 32,'
:3' 8:3<' 8:<33' C;88;59 2=' &' 8:3' 49B9=9 2' 7 B34' @8,'= 2' ;&83<,'
;H38' :;4' 92' &< 28' &' :97' ;' C<9H;43 &9B3' C;88;59 2= &' 3<7 38A='
49B9=9 2' ?:9D:' ?;=' 8<692H' 8' =59' < @24' 8:3' D 73<' &' 283' <'
92' <43<' 8' 8;>3' ;9<4.92' 8:3' &5;2>,' 3' :;4';5=' 8`' H@;<4';H;92=8'
8:3' D:;<H3=' &' ;: @==;63A=' D;B;5<6' 7 <3' 8' :9=' <9H:8';24' 8: =3'
&' <;2D3=D:9A=' D:;==3@<=' =8955' &@<8:3<' =@8:,' <8@2;8356' 8:3'
H< @24' ?;=' =' 7@D:' D@8' @' 78:' < @H:' =8 23' ?;55=')49B9492H'
8:3' &9354=' &' 8:3' B955;H3=' &' ;2' <9=8 C;5';24' 5B92;^' 8:;8' @58A='
D;B;5<6' ?3<3' @2;C53',8' 3G3D@83' ;26' H323<;8 <' B9H < @=' ;4B;2D3,'
\ :32' 8:3' <989=:' =?3 8' ;D< ==' 8:3' 5 ?' H< @24' ;: @==;63A='
4<;H 2=' 7;43' 8? ' <' 8:<33' ;8837 8=' 8' D:;<H3' C@8' & <D34' 8'
;4B;2D3';7 2H' ?;55=';24';B923='8:36' 23B3<' 3B32' D 7 35534' ;H38A='
C;88;59 2=' 8' & <7' =J@;<3';24' ?3<3' 3;=956' 4<9B32' &&' C6';' < 5592H'
&9<3,' :3' 3=3<B3' 49B9=9 2' =83;4956';4B;2D34' ?98:' 8:3' " 8:' ;24'
$24' 92' 98=' &< 28' ;24' 8:3' : <=37 32' H;B3' C;D>,' 8' ?;=' 92' B;92'
T' 3883<' &' :9=';943.43.D;7 ' ;<49@H3' 92' -;73=' <3A=H ' ,' $$#,

□ E:

;' D @283<.;88;D>' ;24' ?;=' J@983' D 2832834' 8 ' :;B3' B9249D;834' :9=' =989 2,' 3' D5;9734' 92' :9=' 49= ;8D:' 8:;8' ;8' 8:3' 324' &'8:3' 32H;H37328' 8:3' ;<76' ?;=' : 5492H' ;' 7 <3' ;4B;2D34' 5923' 859;2' ;8' 98=' D 7 7 32D37328K ;24' 8:9=' ?;=' 92' ;<8' 8<@3' & <' 5B92;' ?;=' 2 ?' DD@ 934' 92' & <D3' ;24' 2 8' 73<356' C6' ;' 9D>38' ;24' ;H38' 2' 8:3'<9H:8':;4'D53;<34'8:3'H< @24'C35 ?'8:3':39H:8=' &' ;2' <9=8 C;5' ?:9D:' ;: @==;63' :;4' C332' DD@ 692H' 4@<92H' 8:3' ;D89 2,' 73' &'8:3' <32D:' ?<983<=' :;B3' D5;9734' 8:;8' @58' ;5=' ':;4' H;9234' H< @24' K C@8'8:3' 256'&;D8'8:;8' D;2' C3' D9834'92'&;B @<' &'8:39<' D 2832892' 9=' 8:;8' 6' ?;=' : 5492H' 2' 8 ' 8:3' = @8:3<2' 324' &' 934<;5 2H;' 55' 8:3' 363.7823==3=' 2' 8:39<' =943' D 2D343' 8:;8' ;8' 8:3' 324' &'8:3';D89 2'8:3' 7;<=:;5A=' ;<76':;4'&;5532'C;D>'8 '98=' <9H92;5' =989 2'+,

2H59=:'D<989D=' :;B3' DD;=9 2;556'=@HH3=834'8:;8'8:3'=@DD3==' ? 2' C6' ;H38';24' 32892D>' 79H:8':;B3'C332' <3==34';24'8:;8'9&'8:3' 49B9=9 2' &' <;=3<':;4'C332'C< @H:8'@ '8 '8:39<'=@ <8'8:3' <32D:' 53&8' 79H:8':;B3'C332'8@<234';24'D<@=:34'*;' @8'D 2=943<92H'8:;8' @58':;4'& @<8332' <'&9&8332'928;D8'C;88;59 2=' 53&8'92'8:3'49B9=9 2=' &' 3<53';24' 35;C <43`'98' ? @54':;B3'C332' ?355'92':9=' ?3<' 8 '&9H:8';'=@DD3==&@5'43&32=9B3';D89 2' 2':9=':39H:8='8:< ?92H'C;D>' :9=' 53&8' ?92H'=';=' 8 '>33 '98'&< 7'C392H' 32D9<D534' 3' ?;=' <9H:8'8 'C3'D 2832834'?98:':9=' @DD3==K 3B32'9&':3':;4'? 2';'B9D8 <6' :3'D @54':;B3'4 23'2 '7 <3'8:;2'<3.37C;<>'& <'8:3';<76'?;=' 2 8' 92';'D 24989 2'8 ' 5@2H3' 2D3' 7 <3'928 '8:3'%;59D9;2':9H:5;24=' 92' @<=@98' &' @58' ?:' ? @54':;B3'C332'X 9234'92';'&3?'4;6=' C6' 3@43538';24'92';'?33>'C6' 36,

:3'5 ==3=' =@&&3<34'C6'8:3'8? ';<793=';8'8:3'C;8853' &' <@22;

* &'D @<=3'8:3' @28<@=8? <8:6' 3' C53'4 3=' =';24'&;5=9893=' :9=' 7;' ;DD <492H56

* 6A=' C<9H;43'32H;H34'8? 'C;88;59 2=' &'8:3' #8:' 3H979328'C3=943=' 8:<33' D 7 ;293=' &'+ 6 ' &'8:3'MN8:'$ 8:9=' ?;=';55'8:;8' 35;C <43'=328'& <?;<4,' :3<3'?3<3'8? ' [' ' ';7 2H'8:3'? @2434,

* %' :;J@3';<7333<3=8;'=@<' =' 2'83<<;92'K=;6=' 8,' :;7;2=' @58A=' =329 <' ;943.43.D;7 ' 08:3' 7;2'?:' = '>92456T328<3;834' :;<53=' ;93<' ;=' 8:3' 5;883<A=' 737 9<=' =:?P,' % '5;' 2@98 *TJ@9' =3@53' ;' @' 83<7923<' D3883' 5@883' 929;8<3' 2 @=' 2 @=' = 773=' <38< @B3)=' ;@' 928' 4A @' 2 @=' 389 @=' ;<89=' ;' I':3@<3=A' =;6=' ;2892' 43=' 4 ;<4=' &' 3<7738A=' 49B9=9 2' 0 ,' $##P,' T =' 8< @ 3=' &@<328' C59H33=' ;<' 43=' & <D3=' =@ 3<93@<3=' 43' <328<3<' 4;2=' 53@<=' ;' <3793<=' =83=' A=;6=' ;6593=' &' ;: @==;63A=' 4<;H 2=' 0 ,' LNP,

* 5;>3236'@<H3=' 8:9=' B3<6'=8< 2H56'0 .' MP'S %<;::7';5= ,

' 8' @54'=332P' 8:;8' 256'8:3'$24' 3H3<';24'MN8:' &'8:3' 923' &' 3<53' ;24'8:3' #8:' &' 35;C <43':;4'C332'=3<9 @=56'32H;H34,

;<=:;5 - @<4;2 92 :9= <f ? &8:3 D;7 ;9H2 H9B3= ### : @8) ;55 8:3=3 &9H@<3= 7@=8 C3 &;< C35 ? 8:3 8<@8:, ;2892 43= 4 ;<4= :;= <3=3<B34 8:3 3G;D8 5 == &:9= ?2 D <=8:3 I =8 3H3< 23 &8:3 <3H97328= &3<7 38A= 49B9=9 2 ?:9D: & @H:8 92 5B92; T98 ;7 @2834 8 2 53==8:;2 II#7 32 1 :3 8:3<& @<3H97328= &8:3 49B9=9 2 ?3<3 2 8 53==433 56 32H;H34 ;24 98 9= <C;C53 8:;8 3<7 38;5 23 7@=8:;B3 5 =8 B3< ###92 >9 34 ;24 ? @2434, ? &:9=8:<33 C<9H;493<= ?328 4 ?2 92 8:3 &9H:8K %;@5 9= ?;= =:8 43;4 3&3CG<3 C;456 :@<8, & 3<53A= 49B9=9 2 23 C<9H;43 ?;= :856 32H;H34 92 8:3 =8<@HH53 ?98: ;2292H:;7A= C;88;59 2= 92 ?:9D: @< $jM =8 5 =8 = :3;B956, :3 <32D:D;22 8 :;B3 =@&&3<34 53== ;= 8:36 ?3<3 8:3 C3;832 ;<86, ;: @==;63A= 4<;H 2= 7@=8 ;5= : ;B3 =@=8;9234 ; <3D9;C53 5 ==K 8:;8 & 35;C <43 0;= ?3 :;B3 ;5<3;46 =332P ?;= 597 9834 8 ;C @8 39H:8332 >95534 ;24 &9&86 ? @2434, &@2? @2434 <9= 23<= 8:3 <989=: 8 >=3B32 &&9D3<= ;924 N 732, &?3, @8 8:3 8 8;5 & 948A= D;=@;5893= ;8 ## ?3 <C;C56 =:;55 2 8 C3 &;< ?<2H, 55 8:3 5;83< 3G 3<932D3 &8:3 ?;< =: ?34 8:;8 ?:32 <32D: 8< = 4359B3<34 92 D 5@7 2 ;2 @ :955.;88;D> 2 ; <989=: =989 2 ;24 &;9534 8:36 =@&&3<34 8?9D3 < 8:<9D3 8:3 5 == &8:3 43&3243<=K ?3 2334 256 7 3289 2 /9793< ;24 @=;D , 2 8:9= DD;=9 2 8:3<3 ?;= 8:3 ;44989 2;5 B;28;H3 8:; 8 <3A= ;<76 :;4 23? 7@=>38= ;24 H 4 ;7 7@29V 89 2 ?:953 8: =3 & @58A= D < = ?3<3 7@D:4383<9 <;834, 5 == & ## 732 8:3<3& <3 =337= ;& ;9< ;24 <;89 2;5 3=897 ;83, :3 97 <3==9 2 8"'8:3 C;8853 2 @5 = 7924 ?;= =@D: 8:;8 92 :9= &9<=8 49= ;8D: 8 8:3 7 3< <:3 ?< 83 8:;8 :3 D @54 4 2 7 <3 ;H;92=8 8:3 2H59=:8955 :3 =: @54 :;B3 <3D39B34 5;<H3 <392& <D3V 7328= @8 8? 4;6= 5;83< ?:32 3 :;4 3B;D@;834 <@22; :3 D:;2H34 :9= 8 23 ;24 538 98 C3 @243<=8 4 8:;8 :3 :;4 H;9234 H< @24 4@<92H 8:3 C;8853 ;24 :;4 = &;< 3=8;C59=:34 ;2 ;4B;28;H3 8:;8 :9= =989 2 & <D34 8:3 2H59=: 8 37C;<>, :9= ;553H;89 2 ?;= ?: 556 ?98: @8 .& @24;89 2, 3 =97 56 D;<<934 @8 8:3 ;<<;2H37328= B:9D: <3 :;4 7;43 & <=32492H &&8:3 ;<76 8 2H5;24 ;24 :9= <3= 5B3 ?;= 49D8;834 C6 8:3 D 24989 2 &:9= 8< = ?: @<H32856 233434 <3 <H;29R;89 2 ;24 <3 =3 ;24 2 8 C6 ;26 &3;< ?:;8 8:3 ;<=:;5 D @54 4 ;H;92=8 :97,

* - @<4;2A= ;, $N, ;2892 43= 4 ;<4= ;, $# ,
* 33 ;<=:;5 - @<4;2A= B3<6 X@49D9 @= <37;<> 2 @58A= C@553892= 92) :9= 0 ; $ P, %9= &9<=8 49= ;8D: ?;= 2 8 8:;8 &;, H32324, * ?: 97;H9234 8:;8 :3 :;4 C332 =@DD3==&@5,K 1

<3 C <23 C;D> 8 :9= J@;<83<= 92 <@22;.=@<B9B34 5 2H 32 @H: 8 <3X959R3 8:;8 :9= ;<76:;4 D 7 538356 C3;832 @58A= ;88;D> ;24:;4 =3D@<34 & < 98=35&;= ;&3 43 ;<8@<3, 2 = 983 &:9= 4<3;49@5 ? @24:3 <38;9234 :9= D 2=D9 @=23== 8 8:3 5;=8, <H38&@5 &55= 9B2 ;92:3 7;43 92J@9<93= ;= 8 .8:3 &;83 &:9= 3= 3D9;5 &<9324= ;24 43 324;28= ;24 & @24 =8<32H8:8 49D8;83 =3B3<;5 73==;H3= <3D 7 7 32492H & GB < 7 89 2 &&9D3<= ?: :;4 49=V 892H@9=:34 8:37=35B3= ;24 =32492H &;<3?355 H<33892H= 8 :9= &;7956, 3 <3 3;83456 =;94 8:;8 :3 ?;= 4 @2H 92 8:3 ?;6 :3 :;4 ;5?;6= 43=9<34 2 8:3 29H:8 &;B9D8 <9 @= C;8853, :3 256,?39H:8 2 :9= 7924 ?;= 8:3 8: @H:8 8:;8 @C59D 929 2 ;8: 73 5999H:8 C3;< :;<456 @ 2 :97 92 D 2=3J@32D3 &8:3 : << <= &8:3 <38<3;8, T : 3 8:3 3 53 & 2H5;24 ?955 C3 =;89=&934 A :3 H;= 34 T ,: 3 76 D @28<6 ?955 4 7 73 X@=89D3,K 24 8:32 :9= 737 <6 ?;243<34 C;D> 8 8: =3 ?: 7 :3 5 B34K :3 8<934 92 B;92 8 &<;73 ;73==;H3 8 :9= 7 8:3< C@8 ?3;>23== ;24 37 89 2 B3<D;73 :97 ;24 ;&3? 792@83= 5;83< :3 4934 ?98:8:3 2;73 & 988A= 293D3 O ;46 3=83< 8;2: 3P 2 :9= 59 = * <3 :;4 3G <3==34 ;?9=:8 C3 C@<934 ?:3<3 :3 &355 ;24 :9= =8;&& D;<<934 @8 :9= 43=9<3 ;= &;< ;= ?;= ' ==9C53 C6 5;692H :97 92 ;H<;B3 2 8:3 <;7 ;<8= & <@22;, 3 ?;= C@<934 ;8 3;<56 4;?2 2 8:3 =3B3283328: 2 8:3 D328<;5 C;=89 2 8:;8 5 >= @8 8 ?;<4= 8:3 5;24.=943 ;24 8:3 C;8853.&9354, ;<4 C6 :97 593= %323<;5 2=8<@8:3<?: :;4 4934 &46=3283<6 2 8:3 4;6 C3& 9)3 8:3 &9H:8, @58 ?98:; H323< =986 8:;8 4 3= :97 7@D: D<3498 8 >D;<3 & <3A= H<;B3 ;24 <43<34 ;7 2@V 7328 8 C3 3<3D834 B3< 8:3 = 8 ?:3<3 :3 &355 , ; 7;2;, ;&83<?;<4= D;<<934 @8 8:3 ;<=:;5A= 9 @= 9283289 2=,

98853 <37;92= 8 C3 =;94 ;C @8 8:3 37C;<>;89 2 &8:3 ;<76, 8 2923 AD5 D> 2 8:3 29H:8 &8:3 C;8853 8:3 8< =?3<3?98:4<;?2 &< 7 8:3 283 < =989 2 53;B92H 256 9D>38= ;5 2H 98= &< 28, ;26 <3H9 7 328= ?3<3 37C;<>34 8:;8 29H:8 7 <3 2 8:3 7 <292H &8:3 =3B3283328:, 6 8:3 3B3292H &8:;8 4;6 ;55 ?3<3 ;C ;<4 =;B3 3<3=& <4A= C<9H;43 & <;=3<4A= 49B9=9 2 ? :9D: <37;9234 8 D B3< 8:3 37C;G)>;89 2 &8:3 <3=8,

@58 ?:32 :3 & @24 8:;8 8:3 <989=: :;4 ?98:4<;?2 =328 @ = 73 &9354. 93D3= 8 8:3 :39H:8= ;C B3 <8 ;2 93H 2 8:3 = @8:3<2 324 &8:3 C;6, :39< &9<3 D @54 <3;D: 8:3 7 <3 @85692H 8<;2= <8= ;24 D<3;834 = 73 D 2&@=9 2 ;= 8:3 7;=83<= :;=8956

* :3 92=D<9 89 2 ?;= 8 <@2K T 9 D 9498 - :;223= <3 4@G 3G3<D98@= <98;@29D9 92 @H2;5;2@;<99 GB9 M#" D 28<;%;55 = ;4@D3 ;57;89;34@D8 =,A

?39H:34' ;2D: <' ;24' =8 4' @8'8 ' =3;,' @<'B3==35=' <;2' 2' =: <3' ;24'8:<33' &'8:37'D @54'2 8' :3'H 8' &&K' 8:3'8< =' 2'C ;<4'?3<3' :;=8956'8<;2=&3<<34'8 ' 8:3<' =:9 =' ?98:' 2 ' ; <3D9;C53'5 ==K &9A 7' 8:3' ?: 53' ;<76' 256' 2923' 732' &'8:H' 6;5' ;H 2' <;92' ;<3' <38@<234 ' ;=' :;B92H' C332' T'4< ?234' 92' <@22;' :;9AC @<A' 2 '4 @C8' &< 7'8:3'=92>92H' &'8:3'C ;8'?:9D:'?;='89A;2=:9 92H'8:37,' %323<;5' 398:'<3D <4='92' :9='49;<6 8:;8' 2'8:3'B3==35'?:9D:'8 >':97': 73' 8:3<3'?3<3'&<;H7328=' &'2 '53==' 8:;2' =9G'<3H97328=K ?3'D;2';:;<456' 4 @C8'8:;8'8:9=' 7@=8' :;B3'C332' 23' &'8: =3'?:9D:' 9D>34'@ '8:3' 732'&< 7'8:3'=8<;2434'8<;2= <8=,

3<3=& <4A=' C<9H;43' 37C;<>34' &< 7' ;' =;&3' 928' C3:924' 8:3' D98;435' 2'8:3'39H:83328:'53;B92H'8:3'8 ?2'92' D:;<H3' &'8:3'=7;55' ;29=:' H;<<9= 2' 7943<' %323<;5' 5D34 ' ?:9D:' 7;928;9234' 8:3' ? <>=' 892' ;55'8:3'&5338' ?3<3'&;<' @8'8 ' =3;',;24'8:32' <;8:3<'8;7356' =@<<3243<34,' :9=' ?;=' 3289<356'8:3' 4 92H') &'8:39<' D 7 7;243<' ;'=:9&86' 54' 7;2' ?: ';57 =8'97 7349;8356';&83<'8 >'=3<B9D3' ?98:' 092H'- =3 :

:3' <38@<292H' &5338' :;4' ;' 837 3=8@ @=' C@8' <; 94' ;==;H3K' @<H34' 2' C6' ;' <;H92H'= @8:.?3=83<'8:3'B3==35=' <;2' : 73' 92A'& @<' <' &9B3' 4;6=' ;24' 7;43' ;57 =8' 3B3<6' :;<C @<' C38?332' ;57 @8:.' ;24' B3<,' ;26'8<;2= <8=':;4,;'4;2H3< @=' ;==;H3'C@8' 256'8? ' 8:3' P ! ' ;24'8:3' - 8 * 'D;73' 8 'H<93&' &&'8:3' <29=:' D ;=8' ;24' ?3<3' 5 =8'8:3' & <73<'.=B98:'8 3' &&9D3<=' ;24' &9&86.=9G' 732' &'8:3' 8:' @==;<='.0+'4(..+,'5%.0' &9B3' &&9D3<=' ;24' $#"' 732' &'8:3)092HA=' %3<7;2' 3H9 2`,' ' 32434'8:3' &;7 @=' T 38<3;8' P6K ' ' (0(37)<

<3A=' 737 <6' 738' ;=' :3' :;4' &3;<34' ?98:' 7;26' @2X@=8' ;= 3<=9 2=' ?:32'8:3'<3=@58=' &':9=' D;7 ;9H2' ?3<3'>2 ?2'92' 2H5;24,' :3' ;= 3D8' &'8:3'$N ###'<;HH34'?;<.? <2'8< ='?: 'D;73' ;=: <3' 2'8:3' @8:' ;=8' ?;=;=' 79=3<;C53'8:;8'8: =3'?: ' =;?'8:37' ?3<3' =: D>34,' :3' =8;83' &'8:3' 7;==' &' I ###' 92B;594=' <;D>34' ?98:' &3B3<' ;24' 46=3283<6' ?: ' ?3<3' D;=8'928' 8:3' : = 98;5=' ?;=' 37923285 6' 49=8<3==92H,' 8'9=' =354 7'8:;8' ;' 2;89 2T=33=' 98=' 8< =' <38@<292H' =8<;9H:8' &< 7'8:3' &9354 ,,?98:'8:3' H<973' ;24' =?3;8' &' C;8853' ;24' 92;<D:' &<3=:' @ 2'8:37,' :3' 97 <3==9 2' 7;43' ?;=

* 8,' ;7;2=' D;55=' :97'T'@2' B93@G'&;9:53' 38' =;2=' 7 632=' 7323' ;<' @23' 3= 3D3' 43'D @<89=;23,A' <,' 8@;<8' 92';'2 83'8 '/;@H:;2P' 43=D<9C3=' :97';=';2' T'@2=D<@ @5 @=' 54'<;=D;5,A' ,

* &,' & <'8:39<' 5 ==3=' 8:3' # "' # ! ' 'GT Q' 0 ,' M' #P';24' 3;79=:A=' 7 "' ' '1 'H *

;' 83<6' @2:; 6' 23' ;24' 98' ?;=' 3;=6' 8 ' C5;73' 8:3' %323<;5;'
@C59D' 49=D 28328' ?;=' < @=34' C 8:' ;H;92=8' <3' ;24' ;H;92=8'
8:3' 7929=8<6' ;24' = 73' &' 8:3' 43&3243<=' &' 8:3' 5;883<' 8 >' ;2'
@2H323< @=' <8@2986' &' =:9&892H' ;55' 8:3' C5;73' @ 2' 8:3' 7;2'
?:'D @54'2 '5 2H3<'B9249D;83':97=35&,' :9=' < B >34':9='2@73< @='
&<9324='928 ';==3<892H'8:;8' :9=' ?:53' D 24@D8' &' 8:3' D;7 ;9H2':;4'
C332';C= 5@8356'C5;7353==';24'8:;8';26'79=& <8@23='?:9D:' DD@<<34'
?)3<3'=97 56';24' = 5356'8:3'&;@58' &' 7;5;47929=8<;89 2';24'@2?9=3'
D @2D95=';8' : 73,' <3'?;=' 8:3' :3<' &' 8:3'\ 5<9H' ;<86';24'
5989D=' ?3<3' 4<;HH34' 928 ' 8:3' 49=D@==9 2' &' 8:3' D;7 ;9H2' 8 ';'
5;7328;C53'3G8328,' 2H'63;<=';&83<':9='43;8:'8:3';8898@43' &'8:3'
D<989D,<'8:3' :9=8 <9;2'?:' 43;58'?98:'8:3' <;22;'<38<3;8'?3;'
92B;<9;C56'D 5 @<34'C6':9='\ :9H' <' <6' <34953D89 2=,
:3';DD3 834'B93?' &'8:3' <3=328' H323<;89 2'9=08: @H:' 7 =8'
732';<3'3289<356'@2;DJ@;92834'?98:'8:3'&;D8P'=8< 2H56'D 5 7<34'C6'
8:3'D9<D@7=8;2D3'8:;8' 9559;7' ; 93<':?: =3'35 J@328':9=8 <6':;'
=@ 3<=3434';55' 8:3<'2;9 ;89B3=' &'8:3' 3292=@5;<' ;<'?;=';'B9 5328'
32376' &'8:3' <6'7929=8<6';24';' 3<= 2;5';479<3<' &' <3,'
92386'63;<=';24'7 <3';:B3'2 ?' ;==34'=92D3'8:3'H9*3;8'<38<3;8'
;24'?3',D;2'5 >'@ 2'8:3'D;7 ;9H2'?98:'97 ;<89;5'363=;' 8'9='
3;=6'8 ' 928' @8'79=8;>3=' 7;43'C6'8:3': 73'H B3<27328'=@D:'
;=' 8:3'8;<46'49= ;8D:' &' ;9<4A=' D;B;5<6';24'8:3'92;43J@;83' < V
B9=9 2' &'7 23X)'C 8:'& <'8:3'49B9=9 2'?:9D:'=8;<834'&< 7' 9=C 2'
;24'& <'8:;8'?:9D:'=8;<834'&< 7' <@22;,' @8'8:3=3';<3'2 8'8:3'
7 =8'97 <8;28'D;@=3=' &'8:3' 79=& <8@23=' &'8:3)'D;7 ;9H2,' <'
D;2'98'C3' 53;434'8:;8'8:3'7929=8<6'494'2 8'=@ <8' <3' 6;556'
<'8:;8'8:36'8934':9=:;24='C6'D 28<;49D8 <6'<'B3<.3G 59D98' <43<=,'
'H5;2D3';8' ;=853<3;H:A=' 49= ;8D:3=' 9=' =@&&9D9328'8 '=: ?'8:;8':3'
;24':9='D 3;H@3=' 53&8' 3B3<68:92H'8:;8'?;=' ==9C53'8 'C3'=388534'
C6'8:3'%323<;5';24'8:;8'8:36';' < B34'3;D:' &':9=' 4383<7 92;89 2='
;='98'<3;D:34'8:37'?98: @8';26'D;B95592H' <'D<989D9=7

<3'7@=8'8;>3'8:3'7;92'<3= 2=9C95986'& <';55'8:;8':; 3234,'
%2'8:3,'?:53'8:3'97 <3==9 2'53&8';&83<';'=8@46' &':9='D;7 ;9H2'
9='B3<6'&;B @<;C53'8 ':97,' 9='7;92'D 2D3 89 2'?:32':3'7;<D:34'
&< 7' ;5;7;2D; 8:;8' &'H;9292H'8978'3'& <'8:3'<;55692H' &'8:3'
;29=:';<793=)'C6'49<3D892H';'=@4432'<;94'@ 2'8:3' 7 3< <A='
D 7 7@29D;89 2='92' ;=8953 ?;=';'= @24';='98'?;='3283< <9=92H,'
:3' <32D:'D<989D='?C ':;B3'D:;<H34':97'?98:'<;=:23==':;B3'23B3<

* 2'&;9<23==' 8 '8:3'H B3<27328' ;=853<3;H:A=' 49= ;8D:3='"$. # 92'8:3'
# ' & ' 'JOAG$'=: @54'C3'D;<3&@556'=8@4934,

& <N&3 &' ;55 ;<7=' D 2D328<;834' ;8' ;5; 7 ;2D;' C6' B3 7 C3<' ;' B32' ?98: @8' ;9<4' :3' D @54' 8:32' :;B3' 3G3<D9=34' = 7 3' 92&5@32D3' 2' 8:3' D @<=3' &'3B328=;' ='98' ?;='3' D 243 7 234' :9 7 =35& C6' 8:3' @2 7 9598;<6';D8' &'=3 ;<;892H' :9 7 =35&' &< 7' :9=' H@2=' ;24' :9=' : <=3V 7 32 8 ';' 7 28:' &'&@8953' ?;9892H' ?:953' 8:3' &;83' &' 8:3' D; 7 ;9H2' ?;=' C392H' =388534';' :@24<34';24' &9&86' 7 953=' ;?;6;')

)' :3' D:;2D3' 8:;8' ; 53 2' 8@<234' :9 '?: 53' ;<7 6' @ 2' ;4<94' ;24' 494' 2 8' =324' ;' =92H53' D < =' 92' =3;<D:' &' 8:3' <989=:' H;B3' 5 <3' 8:3' H<;24' <8@2986' & <' =8<9>92H' ;8' 8:3' <32D:' D 7V 7 @29D;89 2=' ?:9D:' :3' 8@<234' 8 '=@D:' H 4' ;DD @28' 92' 8:3' 7 94453' &' 3D3 7 C3<;' @8' 8: @H:' :3' =' = 532494 56' B9249D;834' :9=' <3 @V 8;89 2' C6' 8:9=' C5 ?' ?,3 8;22 8*' & <H38' 8:3' 5 2H' :3=98;89 2' ;8' ;5; 7 ;2D;' C6' ?:9D:' 98' ?;=' <3D3434' 2 <' 8:3' @2:; 6' < X3D8' & <' 92=8;28' .<38<3;8' 2' <8@H;5' ?:9D:' ?;=' = ' 23;<56' @8' 928' 3G3D@89 2,' &' 98' :;4' C332' D;<<934' @8' <3A=' 2;7 3' ? @54' :;B3' C332' <353H;834' 8 ';'B3<6' 5 ?' 5;D3' 92' 8:3' 59=8' &' <989=:' D 7 7 ;243<=' & <' :3' ? @54' @24 @C83456';:;B3' 3B;D@;834' 9=C 2' X@=8' ;=' :3' :;4' <3 ;<34' 8 ' 3B;D@;83' <@22;' 2' 8:3,'4;6' C3& <3' :3' ?;=' =5;92,' 3' :;B3' :9=' ?2' ? <4=' 8 ' 8:;8' 3&&3D8,' 2' B3 7 C3<' $ ' :3' @8' 2' ; 3<' :9=' 929 2' ;=' 8 ' 8:3' 43&32D3' &' <8@H;5,' T' 8=' &< 2893<A:3';?< 83' T 9=' 2 8' 43&32=9C53';H;92=8';' =@ 3<9 <' & <D3,' 8' 9=' ;2' 32' &< 2893<' ; ' 3J@;556' <@HH34' C@8';55' 3J@;556' 8 ' C3' 3238<;834,' &.8:3' <32D:' =@DD334' 92' ;92' 98' ?955' C3' B;92' 8 ' ;883 7 8' 8 ' <3=9=8' 8:3 7 ' 92' <8@H;5,' :3' <989=:*' 7 @=8' 92' 8:;8' 3B328' 9 7 7 349;8356' 8;>3' =83 =' 8 ' 3B;D@;83' 8:3' D @28<6':A' 8' 9=' & <8@2;83' 8:;8' 9<' <8:@<' 3553=536' ?;=' 2 8' &' 8:9=' 929 2' <' 8:3' D @<=3' &' 8:3' 3292=@5;<' ;<' ;24' &' 8:3' ?: 53' =8<@HH53' C38?332' 2; ;<83' ;24' <98;92' 7 9H:8' :;B3' C332' 7 49&934' 92' ;' B3<6' @2:; 6' &;=:9 2,' 7 @D:' 7 @=8' C3' =;94' &' <3A=' 3;<593<' &;@58=;' &' :9=' 5;83<' 23=' D 7 7 98834';&83<' :9=' 43 ;<8@<3' &< 7' =8 <H;' ;57 =8';=' 7 @D:' 7 9H:8' C3' 7 ;43,' 59=' 5 2H' :3=98;89 2' ;=' 8 ' ?:38:3<' :3' =: @54' 7 ;<D:' 2' / 9H ' <' 2' <@22;' ' ?;=' 923GD@=;C53K' ;8' =8 <H;' :9=' 7 924' =: @54' :;B3' C332' 7 ;43' @ ' ;24' 8:3' / 9H ' < ;4' 0;' C;4' D< ==.' *' < @83' 2' ?:9D:' :3' :;4' 2 8' ;' =92H53' 7 ;H;R923P' =: @54' :;B3' C332' 53&8' @8' &' D 2=943<;89 2,' 6' &;9592H' 8 ' 7 ;>3' @ ' :9=' 7 924' ;24')8;>92H' @=353==' :;5&. 7 3;=9@)3=' <3' 43 <9B34' :9 7 =35&' &' 8:3' =3<B9D3=' &' C3<8' <;?&@<4';24' I ##' &' 8:3A' C3=8' = 5493<=' &' :9=' ;<7 6,' @8' ;=' ?3' :;B3' =: ?2' 35=3?:3<3' 8:3' :3=98;89 2' ?;=' 92' 98=' <9H92' 8:3' <3=@58' &' 8:3' H< @2453==' :6 8:3=9=' ?:9D:' <3' :;4' & <7 34 ' <3' 8 ' ;=853<3;H:' &< 7 ;5; 7 ;2D;' B,' $,

N##

23 >2 ?= 2 8 &< 7 ? : ;8 <37 9=3= 8 : ;8 8 : 3 <32D : ? @54 2 8 C3 ;C53 8 9@=23 : 97 C36 24 / 955;&<;2D;,

8955 7 <3 32 8 D<989D9= 7 9= 8 : 3 : 3;45 2H ;D3 ;8 ? : 9D : <3 D 24@D834 8 : 3 5;=8 =8;H3= & 8 : 3 <38<3;8, ; 93< : ;= 8<934 8 Z <3 <3=328 8 : ;8 8 : 3 7 ;<D : 3= ?3<3 2 8 @2<3;= 2;C53K T 92 353B32 4;6= A : 3 ?< 83 T ; = 7 ;55 ;<76 ;==34 B3< ; : @24<34 ;24 &9&86 7953= & H 4 < ;4 @ $?3 : ;B3 8 434@D8 8 : <33 4;6= & <3=8 53;B92H ;2 ;B3<;H3 & ;C @8 =3B328332 7953= ; 4;6 ;24 8 : 9= & < -;2@;<6 7;<D : 92H 92 ; <@HH34 =2 ?.D5;4 D @28<6 9= 2 8<9&53, <. 8 : @H : 8 : 3 < ;4 ?;= T H 4 A 92 8 : 3 =32=3 8 : ;8 98 ?;= ?355 32H9233<34 98 B;= D 24@D834 B3< <94H3 ;&83< <94H3 & 23 & 8 : 3 7 =8 7 @28;92 @= 5;24= 92 @< 3, : 3 43= 3<;83@ : 955 H<;49328= C38 B332 =8 <H; ;24 ;2R;2;5 ;24 C38?332 / 955;&<;2D; ;24 3<3R;5 D;22 8 C3 73;=@<34 92 73<3 7953= B:32 8 : 39< 49&&9D@586 9= C392H 3=89 7;834, : 3 7;<D : 92H = : @54 C3 D;5D@5;834 C6 : @9.= ;24 2 8 C6 7953=, <3 B3< <3 <3 3;83456 H;B3 : 9= 732 29H : 8. 7;<D : 3= ;24 3B32 8 B 29H : 8. 7;<D : 3= 2 324, ;5& 8 : 3 : << 9= & 8 : 3 4<3;4&94 =8;H3 C38 B332 @H ;24 38;2R = D;73 &< 7 8 : 3 &;D8 8 : ;8 8 : 3 ;<76 =8;<834 ;8 7942 9H : 8 2 -;2@;<6 M. " 256 <3=834 ; &3? : @<= C6 4;6 ;24 8 : 32 7;<D : 34 ;H;92 ;8 =3B32 2 8 : 3 3B3292H & 8 : 3 2928 : ;24 8 : < @H : 8 : 3 B: 53 & 8 : 3 4;<> : @<= C38?332 8 : 3 2928 : ;24 8328 :, 53= : ;24 C5 4 D;22 8 324@<3 =@D : ; 8<9;5 3B32 92 H 4 B3;8 : 3<;24 8 : 3=3 B3<3 29H : 8= & : @<<9D;23 ;24 4 B2 @<, : D;2 B 243< 8 : ;8 *3]Z32 B355.49= =34 ;29 ?95592H 732 5;HH34 C3 : 924 =;2> 4 B2 ;24 4934 C6 : @24<34= @243< =@D : =8<3== U

55 8 : 9= : @<<6 B;= @223D3==;<6K B : 323B3< 8 : 3 <3;<H@;<4 8@<234 8 &;D3 8 : 3 <32D : @58 ?;= & <D34 8 B;98 & < 7;26 : @<= C3& <3 : 3 D @54 3B32 C3H92 ;2 ;883 7 8 8 3B9D8 98, < : 9= 92&;28<6 ?;= ;: B;6= 7;26 7953= 8 8 : 3 <3;<;24 : 3 D @54 2 8 3&&3D8 ;268 : 92H ?98 : 8 : 3 : <=37 32 & : 9= ;4B;2D34 H@;<4 ;H;92=8 ;H38A= =83;46 C;8V 8;59 2= ;= ;D;C355 = =@&&9D932856 =: B34, ; 93< @<H3= 8 : ;8 ;26 =989 2 8 : ;8 8 : 3 <989=: 8 > @ D @54 C3 8@<234 C6 =943.< ;4=K 8 : 9= 9= 8<@3 C@8 8 : 3 &5;2>92H 7 B37328 ? @54 ;: B;6= 8;>3 ;2 92 <492;83 8973 ;24 C6 8 : 3 7 7328 8 : ;8 8 : 3 <32D : : ;4 =8;<834 @ 2 98 8 : 3 <989=: <3;<H@;<4 D @54 : ;B3 H 8 &&92 =;&386 ;&83<) : ;B92H 435;634 8 : 3 3237 6 & < 8 : 3 C3=8 ;<8 & ;4;6, & 92=83;4 & &&3<92H <3=9=8;2D3 256 ;8 ;D;C355 = 2=8;2892 ;24 @H <3 : ;4 =: B2 &9H : 8 ;8 8 : <33 < & @< 8 : 3< 5;D3= 3, H, ;8 ; 93< 9, IL",

8:3)2;9 ?' ;=' &' 9349);&98;'8:3') ;==;H3' &'8:3' ;4<;';24'8:3'
43&953' &' 283' ;5J@39< :3 2334':8':;B3':@<<934':9='7;92'
C 46':36 24'8:39<'=8<32H8:';24'53&8'8:3'<;4'=8<3?2'?98:'='
7;26'3G:;@=834'=8<;HH53<=,' <32D:';24' 2H59=:' 363.?9823==3='
;59>3'<3 3;83456'3G <3=='8:39<'=@< <9=3'8:;8'=@D:' =989 2='?3<3'
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J <89 2'&'8:3' <989=:'5 ==3='?3<3'4@3'8'73<3'?;28'&'49=D9 5923'
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&;95'8'=33'8:;8'8:9='?;=' 2 8'8:35'=53'D;@=3' &'8:3'49=;=83<=' &'8:3'
<38<3;8,' :3'%323<;54<B3':9='732'C36 24'8:39<'=8<32H8:'?:32'
:3'79H:8J';8'8:3'D =8' &';'&3?'<3;<H@;<4'=>9<79=:3='::;B3'H9B32'
8:37'&@<' <'&9B3'4;6='7 <3'92J'?:9D:'8'';DD 7 59=:'8:39<'<38<3;8,'
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C3& <3' @58':;4'='&;<'D 553D834':9=';<76'8:;8':3'D @54'B328@<3'
8';88;D>,' 8';26'8:3<' 928'8:3'<3=@58' &' &&3<92H'C;8853'?@54'
:;B3'C332'7@D:'8:3'=;73,' '3GD@=3'&<' <3'D;2'C3'7;43'
2'8:3'H< @24' &'92=@&&9D9328'=@ 593=K';8'/955;&<;2D;'@H';24'
38;2R=':3'43=8< 634'32 <7 @=' J@;289893=' &'& 4';24' &832'='
97 3<&3D856'8:;8:3' <32D:'=@DD33434'92'59B92H'&<'=3B3<;54;6=' 2'
;?:;8:36'D @54'=;B3'&< 7'8:3'&5;73=,

2'7;>92H'8:3=3'D<989D9=7='?3';<3'2 8'92'8:3'53;=8'?9=:92H'8'
97 @H2' <3A=<3 @8;89 2';=';'D; ;C53' &&9D3<';24';'H 4'H323<;5,'
3'?;=C 8:.C@8':9=&;@58'?;=';2'3GD3==9B3'=32=3' &'<3= 2=9C95986,'
3'D @54'23B3<'&<H38998:;8':3::4'92':9=D:;<H3';='?;=;94 2 8'
'<989=:';<76'C@8' '<989=:';<76A 8:3' 23'3&&9D9328'&<D3'8:;8'
8:3' 29834'092H4 7'D @54' @8'928'8:3'&9354,' 3'?;=5 8:'8'
<9=>'98'8: @H:'@5897;8356':3'494'='92':9=';479<;C56'D 2D39B34'
7;<D:' 2' ;::H@2,' 3':;4';5='8'8:92>' &':9=' ?2'D;<33<K'
;7 2H':9=2@73<@=&<9324=';24';479<3<=':3'::;4';'<3 @8;89 2'&<'
'17 9598;<6'92&;559C95986'?:9D:':3'?;=5 8:'8':;R;<4,' D892H'@243<'
;'=8< 2H'=32=3' &,4@86' 3'494'='C@8';55'8:3'?:953':3'?;=';2G9 @=56'
;=>92H':97=35&'T' :;8'?955'8:36':;6';8':' 73'b'A' 8'?;=8:9=='35&.'
D 2=D9 @=23==8:;8'?;=' <3A=?3;>' 928,' <8@2;8356':3'?;=';'
7;2' &'D @<;H3';24': 2 @<';24';8'8:3'D<989D;57 7328'<3D B3<34'
8:3'D 2&9432D3';24'43D9=9 2'?:9D:'?;=' = 7389 73=?;2892H'92'8:3'
:@<=' &'4 @C8';24'?;9892H,

3?'732':;B3'C332'C3883<5 B34'C6'8: =3'?: '>23?'8:37'C3=8,'
':;B3' =3<B34'92'8:3'<3H97328=?:9D:' <3':;4'8<;9234';8'
:<2D59&83'92' M#I.'?;=8'C3':9=43B 834J&<9324';24';479<3<'
&'<'59&3';24'43;8:,' ;24= 73'D @<83 @='X@=8';24'C323B 5328,

Q

@2= ;<92H 8 : 97 =35& D 2=943<;83 8 : 9= =@C <492;83= : 3 2 ;55 :3;<8=; T 3 ?;= ;B3<6 >92H &7 32 ? < 83 :;<53= ; 93<$;24 :;<53=A= 7 <3 35 J@328 C< 8:3< :;= 53&8 :97 ; ;23H6<9D =@D: ;= &3? H323<;5= :;B3 7 3<9834 ;24 &3?3< =89 C8;9234 ,

9 1

* T :@= 32434 8:3 D;<33< & 9< - :2 <3 ;7;2; ?: =3 @2D 7 7 2 D; ;D986 ?;= =@=8;9234 :6 8:3 @<3=8 B9<8@3 ;24 H B3<234 C6 ;49=9283<3=834 ;8<9 89=7 7 <3 92 >33 92H ?98: 8:3 <97989B3 8:;2 8:3,5@G@<9 @= ;H3 &;H<3;8 2;89 2, 9= 8;55 H<;D3&@5 3<= 2 :9= 4;<> =3;<D:92H 363= =8< 2H56 43&9234 & <3:3;4 ;24 =92H@5;<56 3G <3==9B3 7 @8: 9249D;834 ;95 :53 49= =989 2 ;24 ;<3&9234 @243<=8;2492H, :3 5 &86 =3289 7328= &: 2 @< :;C98@;5 8 :9= 7924 ?3<3 ;4 <234 :6 ;=@C853 5;6&@5)?98 ?:9D: H;B3 :97 92 D 2B3<=;89 2 8:3 ;=D32432D6 ?:9D: :3 ;5?;6= <3=3<B34 :68:3 43D9=9B3B9H @< &:9= ;D89 2, 3 7 ;928;9234 8:3 <9H:8 ?98: ;B3:3 7 32D3 C <43<92H 2 &93<D323== ;24 3B3<6 9 7 <8;28 8<;2=;D89 2 92 ?:9D: :3 ?;= 32H;H34 92D<3;=34 :9= <3 @8;89 2 & < 8;5328 ;24 D 2&9<7 34 :9= D:;<;D83< ;= ;=83<2 323 7 6 8 B9D3 ;=83;4&;=8 &<98&24 8 7 3<98 ;X@=8 ;24 &;98:&@5 =3<B;28 &:9= D @28<6, 93 : 23=8 5 B34 :97 8:3 49=: 23=8 &3;<34 :97 $:3 494 2 8 =:@2 C@8 =D <234 ;24 = @7 34 8:3 C;=3 ;24 ?98: 3:;<;D83<9=89D < <9386 8:36 = @7 34 ;8 :97 ?:32 :3 ?;= 43;4, , , , & H5 <6 :3 ;49=892D89 2 & < =@D: ; 7;2 43;8: 9= 2 8 ; 53B3553<^ ; $9, I I I,P

55

<8, `), ; < B92D3 328<3 92 : 38 @3< 5; B953 4A <8 6 D 7 <9=3 =3<; 4 2233 32 8 @83 < <9386 38 = @B3<;92383 ; , ,53 < 9 4A 8<@<93 ; B3D 53 898<3 43 < 9 43 5; @=98; 293 =3 8328<9 2;53,

$, ; < B92D3 4A 53283X 38 53, < 6;@73 43= 5H;<B3= =3< 28 4 223= 32 8 @83 < <9383 38 = @B3<;92383 ;2 <92D3 43 5; ;9G 4 28 95 X @9<; ;B3D 53 898<3 43 <92D3 43= 5H;<B3=,

I, 3= < B92D3= 43 39<; < ;=.5 =. 283= 38 43 A =8<; 7;4@<3 <8@H;9=3 <3=83< 28 32 43 8X@=J@A;5; ;9G H323<;53 38 ;5 <= 2 49= =3<; 4A3553= =35 2 53= D9<D 2=8;2D3= 38 D 2& <7 3 7 328 ?D3 J@9 =3<; D 2B3:@ 328<3 53= 43@G :;@83= ;<893= D 28<;D8;9983=,

L, 3 < 6;@73 43 5; @=98;293 =3 8328<9 2;53 =3<; ==343 ;< 53= 43=D32. 4;2= 43 F 53 < 9 4A 8<@<93 :3<3498;9<3 7 328 38 =@9B;28 53= 5 9= 43 =@DV D3==9 2 J@9,= 28 32 @=;H3 4;2= 5;&;7 9553 <3H2;283 43 , ,53 < 9 4A = ;H23,

, ; <92D9 ;@83 43= 5H;<B3= =3<; ==3433 ;< 53= 43=D324;2= 4@ <92D3 43 5; ;9G :3<3498;9<3 7 328 38 4A; <3= 53= 5 9= 43 =@DD3==9 2 J@9 = 28 32 @=;H3 4;2= 5;&;7 9553 <3H2;283 43 , ,53 < 9 4A = ;H23,

N, 43&;@8 43 43=D324;2= @ :3<9893<= 5k 989 7 3= 4@ < 9 43 5; @=98;293 =3 8328<9 2;53 @ 4@ <92D3 43= 5H;<B3= D3= ;6= =3< 28 4 223= 7 6322;28 A92B3=898@<3 ;< , ,53 < 9 4A = ;H23 @<B@ J@A95= 23 @9==328 X;7;9= 38<3 <3@29= = @= @23 =3@53 3<= 223 29 ;5; D @< 223 4A = ;H23,

, 3 < 6;@73 43 5; @=98;293 =3 8328<9 2;53 38 5; <92D9 ;@83 43= 5H;<B3= <3D 22;98< 28 D 773 < 83D83@< ; ,)53 < 9 4A = ;H@3 38 53= = @B3<;92= 43 D3= ;6= 23 @<<)28 X;7;9= &;9<3 5; ;9G 29 5; H@3<<3 =;2= 53 D 2=3283 7 328 4@ < 9 D;8: 59J@3,

M, 9 53= < B92D3= 43 39<; 43 <;=.5 =.5/9 283= 38 43 A =89.;7;4@<3 <82. H;9=3 <3=8;28 32 43 8 38;9328 <324@3= ;@ 83<2= 43 5; ;9G H323<;53 ; 5; 7;9= 2 43 <;H;2D3 32 3D:;2H3 43 %9C<;58;<5; <9@983 38 4A;@8<3= D 5 293= J@3 53= 2H5;9= 28 D 2J@9=3= =@< A = ;H23 38 =3=;559 f 53 2 @B3;@ = @B3<;92 43 D3= < B92D3= ;@<;98 ; A3H;<4 43 , , ,53 < 9 4A = ;H23 53= 7373= = @79==9 2= J@3 53 < 9 43 5; @=98;293 =3 8328<9 2;53 38 53 <92D3 43= 5H;<B3= .38 95 ==443<; = @= 53= 7373= D 24989 2=,

"; , , ,53 < 9 4A 8<@<93 D343 32 8 @83 < <9383 38 = @B3<;92383 53 < 6;@73 4A 8<@<93 ; , , ,A37 3<3@< 43= <;2 ;9= 9 4A58;593,

#, U@;24 A DD@ ;8X 2 43&92989B3 43=, < B92D3= 4@ <8@H;5 =3<; 3&&3D8@3)3 53= 49&&3)<32= <92D3= J@9 4 9B328 534 ==3)43< 2 773< 28 4A;DD <4 53= D 7 79==;9<3= @< &9G3< 53= 597983= 2;8@<3553=,

, , , ,A37 3<3@< 43= <;2 ;9= 9 4A58;593 H;<;2898 ; , , , ,53 < 9 4A = ;H23 5; ==3==9 2 43 =3= 38;8= 4@ D 2892328 4A @< 3 =98@3= ;@ 7949 43= 6<3233=,

$, , , ,A37 3<3@< 43= <;2 ;9= 9 4A 8;593 =A C59H3 ; <3D 22;98<3 , , , ,53 < 9 4A = ;H23 D 773 37 3<3@< 43= 43@G 73<9J@3= J@;24 8 @8

=3<4) <38' ;&9;' J@3' ;' ;' @9==3' <324<3' D3' 898<3 ' D3' J@9' @<<;' ;<<9B3<' ;@ 83<2=' 43' 5;' ;9G' H323)<;53 ' 2' 53' 5@=' 8;<4 ' 4A9D9' ;' 8< 9=' ;2=,

I,' 3=' 59;@83=' @9==;2D3=' D 28<;D8;283=' ;DD <43< 28' 53=' 7 632=' 43' &;9<3' ;' A;79;C5D' @23' 49B9=9 2' 3H;53' 43=' 953=' D 5 293=' 38' ;@8<3=' < <9383=' 4A @8<3.73<' 4@' <8@H;5,

L,' 3' <3=328' 8<;983' <3=83<;' =3D<38 ' 95' =3<;' <;89&93 ' 38' 53=' <;89&9D;89 2=' =3< 28' 3D:;2H33=' ;' ;4<94' 4;2=' B92H8' X @<=,

1 ;98' ;' 28;923C53;@ ' 53' $ ' D8 C<3' M# ,

@2 D,

-0/ , ' $M -,/4

/ ' 99 ,

<8,' ` ' @' D < =' 43' 8< @ 3=' 97 3<9;53=' &<;99 ;9=3=' 43' B92H8.D92J' 79553' C 7 7 3=' 4A92&;283<93)' 38' 43' 8< 9=' 43' D;B;53<93 ' 328<3<;' 32' = ;H23 ' 95' &3<;' =;' X 2D89 2' ;B3D' @2' D < =' 43' 8< @ 3=' 3= ;H2 53=' D 7 =3' 43' :@98' 79553' C 7 7 3=' 4A9@&;283<93 ' 8< 9=' 79553' 43' D;B;53<93 ' 38' 8<3283' 93D3=' 4A;<89553<93,

$,' @' 7 3 7 3' 83<2=' @23' 49B9=9 2' 43' 8< @ 3=' 3= ;H2 53=' 43' 49G' 79553' C 7 7 3=' <324<;' ==3==9 2' 43' 5;' < B92D3' 4A328<3' 92C ' 38' @3< ' 38' 43' 5;' B9553' 4A <8 ' 38' @23' ;@8<3' 49B9=9 2' 43' =9G' 79553' C 7 7 3=' D 7 =33' ;<39553 7 328' 43' 8< @ 3=' 3= ;H2 53=' <324<;' ==3==9 2' 43' A 53283X ' 38' 4@' < 6;@ 7 3' 43= 5H;<B3=,

I,' 3=' 8< @ 3=' &<;2 ;9=3=' =3< 28' 2 @<<93=' 38' 328<3832@3=' ;' A = ;H23j3853@<' = 54 ' ;633' ;' 5;' <;2D3' 324;28' 8 @8' 53' 83 7 =' 43' 53@<' ;==;H3' 32' = ;H23,

L,' 3 @9=' 53' 7 7328' @' 53=' 8< @ 3=' D 7C9233=' =3< 28' 328<33=' 32' <8@H;5' 53=' < B92D3=' 43' 39<;' <;=.5 =. 283=' 38' A =8<;7;4@<3' <8@H;9=3' 0J@9' 4 9B328' <3=83<' 32' 43 8P ' =3< 28' ;4 7 929=8<33=' 38' H @B3<233=' ;' 53' H323<;5' D 7 7 ;24;28' 43=' 8< @ 3=' &<;2 ;9=3=' 38' 53=' D 28<9C@89 2=' J@9' 53@' =3< 28' 9 7 =33 ' =3< 28' ;@' < &98' 43' 5;' <;2D3,' 3=' < B92D3=' J@9' 4 9B328' D 7 =3<' 53' < 6;@ 7 3' 43' 5;' @=98;293' =3 8328<9 2;53' 38' 5;' <92D9 ;@83' 43=' 5H;<B3=' =3< 28' ;4 7 929=8<33=' 38' H @B3<233=' ;' 53=' H323<;@G' D 7 7 ;24;28' 53=' 49B9=9 2=' 3= ;H2 53=' J@9' 32' <324< 28' ==3==9 2 ' 38' 53=' D 28<9C@89 2=' J@9' 53@' F3< 28' 9 7 =33=' <3=83< 2&' ;@ C323&9D3' 43' A = ; 3,

N,' 3' D < =' 4@' D328<3' =3<;' = @=' 53=' <4<3=' 4@' D 7 7 ;24;28' 43=' 8< @ 3=' &<;2 ;9=3=' ;@==9 C932' J@3' 53=' 8< @ 3=' 3= ;H2 53=' J@9' 5@9' =3< 28' <3@293=;' 3 324;28 ' =9 53' < 9 4A = ;H23' @' 53' <92D3' 43' 5;' ;9G' 8< @B;9328' D 2B32;C53' 38' X@H3;9328' ;' < =' 43' =A6' <324<3 ' 53' H323<;5' D 7 7 ;24;28' 43=' 8< @ 3=' &<;2 ;9=3=' 38' 355 =.7373=' =3< 28' = @79=3=' ;@G' <4<3=' 4@' < 9 4A = ;H23' @' 4@' <92D3' 43' 5;' ;9G,

N,' 2' ;@8<3' D < =' 43' J@;<;283' 79553)' C 7 7 3=' 43' 8< @ 3=' &<;@ ;9=3=' =3<;' <3@29?' ;6 223' 53' $#2 B37C<3' < DC;92' @' ;B;28' D3' 837 =.5;' 38' 95' 43B<;' 38<3' <38*;' 7;<D:3<' =@<' 53' <8@H;5' 32' ;==;28' ;' A = ;H23 ' =9 53=' 2H5;9=' 32B 9328' 43=' <32& <8=' 38' 732;D328' 4A;88;J@3<' 53' <3793<,' 3 324;28 ' D3' 2 @B3;@ D < =' 43' 8< @ 3=' 2A328<3<;' J@3' J@;@4' 53=' 43@G' C;@83=' ;<893=' D 28<;DV 8;283=' =3' =3< 28' 79=3=' 4A;DD <4' @' D38' 3&&38,

;' ;' <3=3283' D 2B3289 2' =3<;' <;89&933 ' 38' A3DC;2H3' 43=' <;89&9D;89 2=' =3<;' &;983' ;@' 7 3 7 3' 83 7 =' J@3' 53' 8<;983' 4A;@X @<4AC@9,

;98' ;' 28;923C53;@ ' 53' $ ' D8 C<3' M# ,

- &

-0/ , ' $M6-,/ 2

, # 6	, # V
<?;<4 M N"	<?;<4 " NM#
@X;5;2D3, ; N"L 24;5@=9;,	24 &934 ; N" %;59D9;,
:92D:955; ; NNM	283<<36 ; N" qq
9@4;4 3;5 ; N N	@<D9; ; NNL @<D9;,
9@4;4 4<9H NMN qX	<32=3 ; NML %;59D9;,
7 =8355; ; ; N"" %;59D9;,	B934 ; NLI =8@<9;=,
<4 B; , ; ML 24;5@=9;,	5;=32D9; ; N"I 24;5@=9;,
@32D; ; N"N qq	283B34<; ; NNM %;59D9;,
D9X; ; , ; NM" qq	24;, ; N L 24;5@=9;,
%<;2;4; , ; NNI qq	;5;7;2D; ; N## %;59D9;,
%@;49G, , ; NMM qq	;289;H , ; N"N qq
-;32 ; , ; NML qq	3H B9; , ; N" qq
-3<3R ; , ; N L qq	3B9553, , ; NL 24;5@=9;,
;<34 ; , ; N ;28;243<,	9H@32R; , ; N " qq
3 2 ; , ; " %;59D9;,	<9; ; , ; NM$ /;532D9;,
H< &9 , ; N M 24;5@=9;,	534 ; , ; N " 24;5@=9;,
<D; ; , ; NN$ qq	< ; , ; N I qq
@H ; , ; NM" %;59D9;,	<@G955 , ; NN qq
;X <D; , ; N # ;53;<9D =53=,	@6 ; , ; NMI %;59D9;,
;5;H; ; L# 24;5@=9;,	/;55;4 594 ; NN$ qq
<?;<4 " NM#	8;5 I# $

, , ;D:<3H97328 :;4 &9B3=J@;4< 2=;24=: @54 :;B3 2@7C3<34;C @8 ## =;C<3=,

; / 9 9 4

6 # , # $ R	6 # $, # V
=8 036 ; NIL 327;<>,	<?;<4 NI
$24 0392; 54 ;=8953,	8:5D;28;<; M"" <8@H;5,
I<4 <92D9 3 I 3? ;=8953,	M8:=;&9; , NI 24;5@=9;,
L8:2&;283 N 327;<>,	"8:5H;<B3 , N $ 327;<>,
&98:<C 2 N N ;8;5 29;	#8:;5;8<;B; N # 24;5@=9;,
N8:;73=9 24;5@=9;,	8:;289;H NL" <8@H;5,
	$8:283=; NN 24;5@=9;,
<?;<4 NI	8;5 + I
<,03* 9 4	

M 2 /. , # V	, # $ V
=8 36 ; ; ;4<94,	<?;<4 I NLN
$24 392; ; M <8@H;5,	-.. 4.
I<4 57;2R; ; #M 327;<>,	=8 @7;2D9; NI# /;532D9;,
L8:;B9; ; ; NNI 24;5@=9;,	$24 @=98;29; ; N L ;4<94,
8:/955;B9D9 =; N$M 327;<>,	I<4 59B32R; ; M <8@H;5,
N8:;H@28 ; L"" 24;5@=9;,	L8:/5@28;<9 = [3? ;=8953,
	43 =;&9; NLM P
	N8:;<9; @9=; NM# =8<37;4@<;,
	N8:= ;&9 53= N"$;53;<9D =53=,
<?;<4 I NLN	8;5 $#M

/

' ' ' T ' ' A

;T 0 ; .* & 41.' 7' ./49 *, ' 7' *3/' $" 8 E "#
' %],

77;2434' %323<;5 : - *' :93& &'8:3 8;&&' %323<;5 5993C;@58,

$

9=8 9B9=9 2' %323<;5 / 2 '0 <9H;43=' B<95';24 <32293<P K
8:' &'8:3 923'0I<4'C;88,P' #II'S L 8:'4988 '0$24'C;88,P' $ #S
#8:'4988 '0 =8';24'$24'C;88=,P'$ $""'S MN8:'4988 '0 =8';24'$24'
C;88=,P'$ NS L8:' ?9=='0 =8'C;88,P' "#,
8;5'=3B32'C;88;59 2=' , MLM

$24' 9B9=9 2' %323<;5 ,. '0 <9H;43=' :;<9 8';24' : 793<3=P K
$24' 3H3<' 0I<4'C;88,P' $ 'S L8:'4988 '0I<4'C;88,P' "NS
$8:'4988 '0I<4'C;88,P' I#$S N8:'4988 '0I<4'C;88,P' I LS
I$24' &'8:3' 923'0I<4'C;88,P' $NNS M8:'4988 '0I<4'C;88,P
I"L'S $24' ?9=='0$24'C;88,P' ,' 8;5'=3B32'C;88;59 2=' M LM

I<4' 9B9=9 2' %323<;5 L 9 *'0 <9H;43=' %<;924 <H3';24' @=93<PK
I =8 3H3<' 0I<4'C;88,P'N I'S I$24'4988 '0I<4'C;88,P "MI'S $N8:' &'
8:3' 923'0I<4'C;88,P'NI S NN8:'4988 '0I<4';24'L8:'C;88=,P' ##LS
M$24'4988 '0I<4'C;88,P'MN S - 6 ' ' '0 =8'C;88,P' "'S
;2 B3<9;2' 3H9 2' #I,' 8;5'39H:8'C;88;59 2= N IM
;B;5<6' 9B9=9 2' %323<;5' K/ / '0 <9H;43=' ;<H;< 2';24'
;@<92PK
$N8:' :;==3@<=' $LLS =8' <;H 2=' $N S I<4'4988 ' $INS L5:'
4988 ' N' S N8:'4988 ' $L"S "8:'4988 ' $ S 8:'4988 ' $L ' ;' L
<89553<6 ' <;92 ' f D,,,

N L

38;D:34 8< =C35 2H92H 8 8:3 < = &3==93<3=,

0 P %;<<9= 2 &;7 35@2; %323<;5 A D @2G K
8: &8:3 923 0L8:X C;88,P LI S L 8: 4988 0I<4 C;88,P $" X
#8: 4988 0I<4 C;88,P LMM S N8: o
=93<= I$" S <89553<6 N I ,,,

N N

/

% , < 83=8 6 43D5;< J@3 8 4 5 J@3 7;29&83=8 32 7 43D<38 435 "" 43 7;<R ;C49D;24 5;J < 2; 32 7 :9X &@3 & <R;4 3< <3D;B3< 7;6 <3= 7;53= 6 5; 3&;=9 2 43 =;2H<3 43 79= J@3<94 = B;=;55 = 6 3< 8;28 43 292H@2 B;5 <,

<;2X23R $ 43 7;<R 43 M##M,

,I / -A;9X<3 @5;5388<3 43 /, , , 3 4 98;B 9< ;DJ@9= 5; <3@B3 4;2= 53= ; 93<= J@A3553 ;32 4@ < 9 = 2 3<3 43 A9283<38 J@3X3 5@9 ;9 8 @X @<= <83, 553 73 3< 7388<; 4;2= 5; D9<D 2=8;2D3 ;D8@3553 43 5@9 ;<53< ;B3D &<;2D:9=3 38 5 6;@83, 2 ;<<9B;28 ; ;4<94 XA3= 3<;9= <83< 7 2 955@=8<3 ; 79 ; J@35. J@3= <3& <73= 23D3==;9<3= 4;2= =3= 8;8= 38 ; 4 223< J@35J@3 =;89=&;D89 2 ; A 929 2 @C59J@3, 3<32B 9 4@ <92D3 43 5; ;9G 73 ;<;9==;98 23D3==;9<3 @< = 2 : 2:397 38 D35@9 43 =3= 3 53=, 3= ;&&;9<3= 4@ <4 28 <38;<43 7 2 B 6;H3, 3= 4B42373 2=4A <;2X@3R 28 3@593@, -3 23 =@9= 928 X@H3 43 D3 J@9 =A3=8 ;==N 38 43 5; D 24@983 4@ <92D3 43 5; ;9G S 7;9= J3 J@3 X3 =;9= :932 DA3=8 J@A95 3=8 4;2H3<3@G @< 53= < 9= 4A;DD @8@73< 53= 3 53= ; <3 ;24<3 4@ =;2H 38 ; =3 &;9<3 X@=89D3 3@G.7373=, -3 <93 93@ J@3 , , 2A32 &;==3 ;= 3553.7373 @2 X @< A3G 3<932D3, 2A3=8 ;= 43 A9283<38 43 A = ;H23 43 &;9<3 4@ 7;5 ; @2 <92D3 J@9 ; @=3 @23 <92D3==3 4@ =;2H< 6;5 38 J@9 ; =9 5 2H.837 = < H9 53 < 6;@73, 2A; 5@= 4A;79= S /, , , 2A32 ;@<; 5@= =9 X;7;9= 3553 3=8 7;5:3@<3@=3, 3= 3@ 53= =3 B32H328 B 5 2893<= 43= : 7 7 ;H3= J@A95= 2 @= <324328, 7 7328 4A;9553@<= @<<;98. 2 &;9<3 53 < D3= ;@ <92D3 43 5; ;9G =;2= 53 &;9<3 ; 5; <3923 38 ;@ < 9 B 8<3 3<3b 3 < D3= ;59 73283<; 53= :;923= 3853= ;==9 2= &;D893@=3= S 53 <3=@58;8 32 =3<; &@23=83 @< B 8<3 D @< 223S /, , , 43D:9<3 ;< 5; =3= 4< 98=, U@A3553 &3<73 A <39553 ; 43= D 2=395= &;9C53= 38 3<&943=, 553 2A; ;= 53 4< 98 43 X@H3< 53 <92D3 43 5; ;9G K =3= D<973= =9 2 5@9 32 <3 < D:3 =3 3<4328 4;2= 53= 4< 98= 4@ 8< 23, -A;9 = @B328 7;2%83=83 53 43=9< J@3 53 <92D3 43 5; ;9G &@8 45 9H24 43= ;&&;9<3=, A;79894 4@ < 9 :;<53= 7A; <83 = @B328 ; 73 8;9<3 38 ; 438 @73< 53= 63@G 43= &;9C53==3= 43 = 2 ;88;D:3 7328, 9=3<;C53= : 773= J@3 2 @= = 773= ^ &;9C53==3 38 3<<3@<DA3=8 2 8<3 43B9=3, ;9= 8 @8 D35; 3@8 =3 D 2D9593<, U@3 53* <92D3 43 5; ;9G = 98 3G953 4A = ;H23 38 X3 5@9 &&<3 @2 <3&@H3 32 <;2D3, U@;28 ; A;C49D;89 2 43 :;<53= / 3553 ; 3@ 593@ 4;2= @2 7 7328 @ 73= ;<733= D @B<;9328 53= = ;H23= 38 ;@G 63@G 43 A @< 3 38 43 5; =83<983 X3 ;<;98<;9= 2A;B 9< 32B 63 8;28 43 8< @ 3= J@3 @< <3D9 983< 4@ 8< 23 7 2 ;5593 38 7 2 ;79, 773= @B3<;92 B 9=92 95 7A3=8 3<79= 43 B @5 9< D 22;98<3 ;B;28 43 <3D 2.

4A <;2X@3R' =328' 2@5=' 38' 43' 2@553' B;53@<' 38' 53@<=' < <9383=' 53@<' =3< 28' <324@3=,

;' ;' 7 ;X3=83' 53' < 9' : ;<53=' ;6;28' ;92=9' ;==@<3' 5;' < = 3<983' A9283H<983' 38' A9243 324;2D3' 43' =3=' =@X38=' ;' ;X3=83' A 7 3<3@<' =A32H;H3' ;' 4 223<' <3&@H3' 4;2=' =3=' 38;8=' ;@' < 9' : ;<53=' ;' 5;' <3923' ;' =;' &; 79553' ;@' <92D3' 43' 5;' ;9G' ;92=9' J@A;' D3@G' 43' 53@<=' =3<B983@<=' J@9' B @4< 28' 53=' =@9B<3' 53=J@35=' X @9< 28' 32' <;2D3' 4A@2' <;2H' 3J@9B;5328' ;' D35@9' J@A95=' ==34;9328' 32' = ;H23,

:3' <37;9292H' =3B32' ;<89D53=' :;B3' <3&3<32D3' 8' 8:3' 3=8;83=' ;24' <3B32@3=' 92' <;2D3' ?:9D:' 8:3' 7 3< <' 7;>3=' B3<' 8' :;<53=' /' ;24' :9=' &; 7956,

% ' ' ' % ' ' ' / ,

<8,' ;' 2' 583==3' 6;53' 53' <92D3' 43=' =8@<93=' ;4:3<3' ;' 5;' D3==9 2' &;983' ;<' 53' < 9' : ;<53=' 43' =3=' 4< 98=' ;@' 8< 23' 4A = ;H23' 38' 43=' 243=' 32' &;B3@<' 43' ;' ;X3=83' A 7 3<3@<' 43=' <;2 ;9=' < 9' 4A58;593' 38' <32 2D3' 32' 8;28' J@3' 43' C3= 92' ;@G' 4< 98=' J@9' 5@9' = 28' ;DJ@9=' D <; 73' <92D3' 43=' =8@<93=' ;' 5;' D @.' < 223' 43=' = ;H23=' 38' 43=' 243=,

;' ;' ;X3=83' A 7 3<3@<' 43=' <;2 ;9=' < 9' 4A58;593' ;DD <43' 32' <;2D3' ;' 2' 583==3' 6;53' 53' <92D3' 43=' =8@<93=' 53' 898<3' 4A 583==3' 6;53' ;B3D' 8 @=' 53=' : 223@<=' 38' <3< H;89B3=' 4 28' X @9==328' 53=' <92D3=' 43' = 2' <;2H,' 3=' 43=D324;2=' 43' 2' 583==3' 6;53' 53' <92D3' 43=' =8@<93=' D 2=3<B3< 28' 53' 898<3' 43' <92D3' 38' D35@9' 4A 583==3' 3<329==9 73' 38' ;@< 28' 8 @X @<=' 53' 7373' <;2H' 32' <;2D3' J@3' 53=' <92D3=' 49H298;9<3=' 43' A 7 9<3,

:3' <37;9292H' &9B3' ;<89D53=' :;B3' <3&3<32D3' 8' 8:3' 3=8;83=' ;24' <3B32@3=' 92' <;2D3' ?:9D:' 8:3' 7 3< <' 7;>3=' B3<' 8' 3<492;24,

/

' ' '

;' % Q ' ' ' ' ' 9

, , *' 7;<>=' ;2' 54' <3H97328' &' 8:3' <3H@5;<' ;<76' S' q' ;' 795989;' <3H9V 7328' S' -' ;' <3H97328' &' 23?' 53B93=,

77;243<.92.D:93&' 93@8,.%323<;5' 4 &,.&') 9,/4' .* . :93&' &' 8:3' 8;&&' ;X <.%323<;5' 7;=' <32 ,

=8' 9B9=9 2' %323<;5' / 2 4' " /2, O' K'

*' ;55 2' %@;<4=' OI<4' C;88,P' M $' S' * 392;' "NS' *' < 2;' M$LS *' -;32' "$$-S' * <5;24;' M$LS' *' I<4' ?9==' ##S' * ;<C;=8<' O:;5&' C;88,P' II S' 8-;3@' N##S' -5=8' &' %<;2;4;' N$NS' - ;R;.' 4 <3=' &' <983J@3<;' ILIS' - 3X;=' LIN,' 8;5 ML I ;B;5<6' ;88;D:34' 8' 8:3' =8' 9B9=9 2' K

* 283=;' $#S' * ;<23=9' $ IS' B: 6 ' ' ' O $' $ IS' * @7;2D9;' ##S' *# 9B32R;' L#S' -' ;2D3<=' &' 8<3<;' ;24' -3<3R' L,' 8;5 "##

Q

$,' ' ' ' ' % ,

0;,P' % ' ' ' % ' / ,

-3' B @=' <93 ' 7 @' D:3<' H323<;5 ' 43' B 2=' <83<' 53' 5@=' <; 9437328' ==9C53' =@<' ;6532 ' @<' 6' &;9<3' B 8<3' X 2D89 2' ;B3D' 53' D < =' J@9' ;' D 7C;88@' ;@X @<.' 4A:@9' ;' 32H9C;<' 38' J@9' =A3=8' <3 593' =@<' D3883' B9553,' 3' =9G937 3' <3H97328' < B9= 9<3' 38' 43@G' 3=D;4< 2=,' @2' 43' 4<;H 2=' 38' A;@8<3' 43' D:;==3@<=' = 28' <3@29=' ;' B 8<3' 49B9=9 2,

-A3= 3<3' J@3' A3223 7 9' =3<;' <3X383' 437;92' =@<' 32H9C;<' ;@' 435;' 4@' &53@B3' 38' J@3' 53=' =83=' 43' %@;<<;7;@' 38' 43' 5;' ;< 5923' <3=83< 28' 32' =@<383' S 95=' = 28' 4A@23' H<;243' 97 <8;2D3,

<=J23' B @=' ;@<3R' C832@' D3' =@DD3='X3' 43=9<3' J@3' B @=' <3@29==93R' ;' 24@X;<' @23' ;<893' 43' B =' & <D3=' ;&92' 43' D 7C;88<3' A3223 7 9' J@9' =3' 8< @B3' 43B;28' 2 @=;' / @=' 23' 5;9==3<3R' ;' ;6532' J@3' D3' J@9' =3<;' 23D3==;9<3' @<' =;' 43&32=3, 9' A3223 7 9' DD@ 3' ;3R;' 95' &;@8' 32' D:;==3<,

3D3B3R' 7 3=' ;==@<;2D3=' 4A;7 9893,

3' H323<;5' -1 *

24@X;<' 53' N X@95538' M##M,

0N,P' % ' / ' ' % ' ,

2' H323<;5

' 3=8' :@98' :3@<3=' 38' 43 7 93,' -A;<<9B3' ;' ;6532 ' @' X3' 2A;9 8< @B3' 3<= 223,' 3' H323<;5' @& @<' 32' 3=8' ;<89' ;' 7 92@98' 38' ;' 7;<D:3' =@<' %@;<<;7;2,' 92 7 3' 95' 2A;' 5;9==3' 3<= 223' @<' 7A92=8<@9<3' 43=' 7 89&=' 43' D3883' 43 7;<D:3 'X3' 23' @9=' <932' 49<3' 43' =989&' ;' D38' 3H;<4' 7;9=' 53' C<@98' D 7 7@2' 38;28' J@3' 53=' 8< @ 3=' 3223 7 93=' J@9' 28' ;88;J@3' :93<' 53' H323<;5' 35;9<' =3' = 28' 49<9H33=' ;B3D' D3553=' J@9' 38;9328' ;' C34;' B3<=' 53=' H <H3=' ;<' 92:;<3=' 38' ;9283.' 35323 ' 2' 4 98' 32=3<' J@3' 53' H323<;5' @& @<' =A3=8' 79=' ;' 53@<' @<=@983' ;&92' 43' 53=' D 7C;88<3,

7 7 3' 53=' 92=8<@D89 2=' 43' / 8<3' GD35532D3' <8328' J@3' X3' 4 9=' &;9<3' 7;' X 2D89 2' ;B3D' 53' D < =' J@9' =A38;98' <3 593' =@<' ;6532 ' J@ 9J@359;<;==3' 38' &;89H@3' X3' ;<89<;9' 4A9D9' @<' 7 3' <324<3' 32D <3' ;@X @<4A:@9' ;' %@;<<;7;2' ;&92' 43' <3H;H23<5;' X @<233' J@3' 32237 9' ;' =@<' 7 9' ;8839 24<3 ' 53' C;88<3 ' 38' 43X @3<' ;92=9' =3=' < X38=' =@<' 53=' H <H3=,

-3' B;9=' 3D<9<3' ;@' H323<;5' @& @<' @<' 92& <73<' 43' 7 2' 7 @B3 7328' =;B 9<' J@35J@3' D: =3' 43' =989&=@<' =;' 7;<D:3' 38' =@<' 53=' 4 2233=' J@A95' 3@8' ;B 9<' 43' D3553' 43' 3223 79;'

3' H323<;5' 43' 49B9=9 2,

(/ 2 /

;6532 ' 53' 'X@95538' M##M,

0D,P' % ' ' ' % ' / ,

-A;9 <3 @ B 8<3' 5388<3' 43' ;6532$ 4A;<3=' 53' 7 @B3 7328' 43' 3223 79' 53' H323<;5' @& @<;' 8<3=.C932' &;98' 43' 53' H;H23<' 43' B983==3' =@<' 5;' ;< 5923' 38' =@<' ;9283. 35323 ' @<' DD@ 3<5;' 8383' 43=' H <H3=' S X3' B 9=' ;B3D' 5;9=9<' J@3' B @=

B @= : ;83R 43 B @= <3@29< ;5@9 ;&92 43 D 7C;88<3 ;B3D ;B;998;H3 =9 A3223 79 =3 <3=3283,* ;9= ; ;@ 593@ 43 =3 <3@4<3 ; ;9283. 323 A32@379 3@8 =@: 3 5; B939553 < @83 J@9 43 ;3R; B; ; %@37;4; 38 J@9 3=8 ;<;55353 ;5; H<;243 < @83 =A95 <324 D3 ;<89 95 &;@8 53 H;H23< 32D <3 43 B983==3 ;@ 43C @D:3 43 D3883 < @83 ;&92 43 A37 3DC3< 43 3238<3< 4;2= 5; ;2D:3, A; <3= D3 J@3 B @= 73 4983= D3 D < = 23 =3<;98 J@3 4A32B9< 2 49G 79553 : 7923= 38 B @= 383= 3@ 73=@<3 43 5; C;88<3 D 7 5383 7328 =A95 3=8 5@= D 2=943<;C53 7;2 3@B<3R @< =@= 324<3 =; 7;<D:3 @ @< 53 D 28329< 4;2= 153= H <H3= 32 ;88324;28 J@3 XA;<<9B3 ;B 8<3 ; @9,

9 B @= 8< @B3R A32237 9 ;5; ;< 5923 @ =@< 8 @8 ;@8<3 928 43 5; H<;243 < @83 8;D:3R 43 53 C;88<3 @< 73 B329< <3X 9249A3 38 <3 @==3< D3 J@9 3=8 43B;@8 24@X;<,

9553 ; 79893=,

3 H323<;5 -1 *

24@X;< 53 X@95538 M##M,

, , 8 ?955 C3=332 8:;8 C6 53883<0;P @ 28 4359C3<;8356 49B943= :9= ;<76 928 8? ;:;5B3=; 6 53883< 3 / 3435 =: ?= 8:;8 :3 7;43 2 <3D 22;9==;2D3= C@8 ;D834 73<356 2 2 53 C<@98 D 7 7@2,A 6 53883<0DP @ 28 ;DD3 8= / 3435A= 3<< 23 @= B93?= ?98: @8 =@= 9D9 2 ;24 ;@8: <9R3= :97 8 H && 2 8:3 ?954; H =3 D:;=3 ?:9D: 3 ?;= < X3D892H,

I, ,

3@<= GD35532D)3= , 53 D 783 43 ;=; 9556 38 53 H323<;5 4 2 <;2D9=D ! ;B93< ;=8;: = D 7 7;24;28 32 D:3& A;<733 4A = ;H23 32 24;5 @=93 B @5;28 4 223< @23 <3@B3 43 53@< :;@83 3=89 73 ; 2 GD35532D3 , 53 H323<;5 D 783 @ 28 H<;24 ;9H53 43 5; 3)H9 2 4A: 223@< D 7 7;24;28 32 D:3& 53 D < = 4A C=3<B;89 2 43 5; %9< 243 ;92=9 J@A; A;<73)3 = @= =3= <4<3= @< 5; C3553 38 H5 <93@=3 43&32=3 J@A95= 28 &;983 D328<3 @23 ;<7333 92&9299:328 =@ 3<93@<3 3:2 7C<3 38 J@9 53= 32B35 ;98 43 8 @83= ;<8=5 =@< 5; 437;243 43 , 53 H323<;5 43 C<9H;43 :;C3<8 D 7 7;24;28 43 5; 3H9 2 4A: 223@< 38 D:;<H3 43= 5392= @B 9< 43 2 GD35532D3 53 H323<;5 32 D:3& 43 A;<733 &<;2 9=3 32 <3=32D3 43 2 GD35532D3 , 53 H323<;5 D 783 ;<3=D 8 H<;24 ;9H53 43 5; 3H9 2 4A: 223@< 38 <3793< 92= 3D83@< 4@ H3293 28 ;<<383 53= D 2B3289 2= =@9B;283= S

<8, `), 3= 8< @ 3= &<;2 ;9=3= = @= 53= <4<3= 43 2 GD35532D3 , 53 H323<;5 @ 28 = 28 <9= 2293<3= 43 H@3<<3 5; 49B9=9 2 / 3435 38 53= ;@8<3= 8< @ 3= &<;@9 ;9=3= 32 24;5 @=93 3GD3 833=,

$, ;49B9=9 2 43 , 53 H323)<;5 / 3435 38 H323<;537328 8 @83= 53= 8< @ 3= &<;2 ;9=3= 32 24;5 @=93 J@9 23 = 28 ;= 4;2= 5; =989 2 43 D3553= D 7 <9=3= 4;2= A;<89D53 F 3B;D@3< 28 A 24;5 @=93,

I, 3= 8< @ 3= D 7 <9=3= 4;2= ;<89D53 $ D 2=3<B3< 28 H323<;537328 8 2= 53@<= C;H;H3= 38 @< 3B983< 8 @8 =@X38 43 8< @C53 324;28 5; 7;<D:3 3553= <37388< 28 53@< ;<89553<93 8< ;92 38 ;@8<3= ;<73= ; 5 # 3= ;H2 53 J@9 =A32H;H3 ;53= 53@< <3249A3 ;@ 7 7328 43 53@< 37C;<J@37328,

L, 3= 8< @ 3= D 7 <9=3= 4;2= ;<89D53 `)] 4@ 8<;983 = <89< 28 43 53@< D; 7

;B3D 53= : 223@<= 43 5;H@3<<3 D:3J@3C;8;955 @ ;6;28 43@G D;2 2= 32 83835 53= = 54;8= ;22 = 43 53@<= &@=95= J@9 =3< 28 43 =3= ;J@;8<3 D328= 8 9=3= 4@ D;7 ,

P 3= 8< @ 3= 43 ,53 H323<;5 /3435 38 ;@8<3= 23 43B;28 ;= 43 =3< 53= ;<73= 53= 5;D3< 28 32 &;9=D3;@G =@< 53 &< 28 43 C;2493<35 3553= 6 5;9==3< 28 ;@==9 53@< ;<89553<93 38 53@< 8<;92, 32 =3<; 4<3==4 < D3=.B3<C;5 ;< 43= &&9D93<= 43= 43@G ;<743= 38 53 8 @8 53@< =3<; <3795 ;92=9 J@A95 3=8 D 2B32@ 4;2= A;<89D53 I,

N, @83= 53= 8< @ 3= &<;2D;9=3= 32 24;5 @=93 =3 <324< 28 ; ;2. @D;< 38 ; 8; ;<X @733= 4A38; 3 J@9 23 @<< 28 3GD343< J@;8<3 3@3= 43 =83 ;B3D 53= =3X @<= 23D3==;9<3= @< 6 38<3 37C;<J@ 3= =@< 43= B;9==3;@G ;6;28 4J@9 ;H3 3= ;H2 5 38 8<;2= <833= 32 <;2D3 ;2 <8 43 D:3& <8,

; 3= 8< @ 3= &<;2D;9=3= =3< 28 37C;<J@33= ;@==98 8 ; <3= 53@< ;<<9B 3, A;<733 3= ;H2 53 ;==@<3 53@< 8<;B3<=33 D328<3 8 @83 ;H<3==9 2 : =8953,

M, ; 53= &&9D93<= H323<;@G =@ 3<93@<= 38 ;@8<3= D 2=3<B3< 28 53@<= ;<73= 38 53= = 54;8= 53@<= ;D=,

", 3= 5 H37328= B9B<3= 38 & @<<;H3= 324;28 5; 7;<D:3 38 5; 8<;B3<=33 =3< 28 & @79= ; ,53= &&9D93<= H323<;@G 38 ;@8<3= 6 ;6;28 4< 98 ;92=9 J@A; 5; 8< @ 3 4;2= 5; < <89 2 43 53@< H<;43 38 =@< 53 934 43= 8< @ 3= 3= ;, H2 53= 32 837 = 43 H@3<<3,

#, 3= D:3B;@G 43 ,53= &&9D93<= H323<;@G =@ 3<93@<= 38 4A 8;8.7;X < 4;2= 5; < <89 2 43 53@< H;<43 =3< 28 8<;2= <83= 32 <;2D3 38 2 @<<9=,=@< 53 934 43 H@3<<3,

; ,53= &&9D93<= H323<;@G D 2=3<B3< 28 DC;D@2 @23 B 98@<3 38 @2 & @<H 2 ,53= &&9D93<= =@ 3<93@<= 38 4A38;8.7;X4<@23 B 98@<3 =3@537328 =;2= 38<3 = @79= ;;@D@2 3G;732 # + F # $, 28 3GD3 833= 43 A;<89D53 <3D34328 53= B 98@<3= <9=3= 32 24;5 @=93 4 28 A3G;<;32 =3<;&;98 ;< ,53 H3)23<;5 :;C3<8,

; @< 3B983<5; 49&&9D@586 4A37C;<J@3< 53= D:3B;@G 43= D < = 43 D;B;53<93 38 4A;<89553<93 D 7 <9= 4;2= ;<89D53 $ 53=498= D:3B;@G =3< 28 >9==3= 32 = ;H23 38 =3< 28 ;63= 4A; <3= A3=897;89 2 43 43@G D 7 79==;9<3= &<;2&;9= 38 3= ;H2 5 38 ;DJ@9883= ;< 53 H @B3<2378328 3= ;H2 5,

3= C53==3= 38 7;5;43= 43 A;<763 &<;2D;9=3 >9==3= 4;2= 53= : 98;@G =3< 28 8<;98 = ;B3D 53 5@= H<;24 = 92 38 =3< 28 8<;2= <83= 32 <;2D3 = @= C 223 38 =@<3 3=D <83 ;@==98 8 ; <3= 53@< H@3<9= 2,

, 773 32 49B3<=3= 32D 28<3= 38 ;<89D@593<3732 8 ;5 <9=3 43 <.4 @3 5@=93@<= 54;8= ;@ 73 <9= 43= <4<3= 43= H324<;@G 38 7;5H<3 53= 3&& <8= 43= &&9D93<= =3 = 28 <83= 4 43= 3GD3= J@9 = 28 923B98;C53= 4;2= 53= B9553= J@9 =328 32D <3 43 > <3=9=8;2D3 ;@ 7 7328 4A38<3 <9=3= , 53; H323<;@G 38 ;@8<3= &&9D93<= <324< 28 53= 73=@<3= 23D3==;9<3= @< <38< @B3< 53= B;=3= =;D<3= J@A 2 @<<;98 ;(79< 3253B3= 38 53= <3=898@3< =A95= 3G9=8328,

N, 2= 53= 37 5 63)= D9B95= ;88;D:3)= ; A;<733 &<;2D;9=3 23 = 28 ;= D 2=943<6= D 773 <9= 2293<= 43 H@3<<3 95= X @9< 28 D3 324;28 @< 53@< 8<;2= <8 32 <;2D3 43 8 2= 53= ;B;28;H3= 43 5; 8< @ 3 4;2= > < <89 2 43 53@< 37 5 9,

; 3= 8< @ 3= &<;2D;9=3= D 773@D3< 28 ; 3B;D@3< A 24;5 @=93 53 $I

X@95538X ;' J@;8<3' :3@<3=' 4@' 7 ;892,' @<' 3B983<' 5;' H<;243' D:;53@<' 5;' 7 ;<D:3' 43=' 8<@ 3=' =A3&&3D8@3<;' 43' 2@98' 38' =3' D 2& <73<;' ;@G' X @733=' 4A38; 3' J@9' =3< 28' < H533=' ;<' ,' 53=' 9 D93<=' 4A38;8.7;X <' &<;2 ;9=' 38' 3= ;H2 5=' 32' 3B98;28'53' ;==;H3' 43=' B9553=' 43' <4 @3' 38' 43' 3B9553,

M,' 3=' 8<@ 3=' &<;2 ;9=3=' 324;28'53@<' 7;<D:3' =3< 28' 3=D <833=' ;<' 5;' 8<@ 3' 43' 59H23' 3= ;H2 53' ;' <;9= 2' 43' 8< 9=' D328=' : 773=' 4A3=D <83' ;<' D 5 223' 43' 8< 9=' 7 9553' : 773=' 38' ,' 53=' &&9D93<=' H323<;@G' =3< 28' 3=D <83=' ;<' 43=' 4 8;D:3 7328=' 43' D;B;53<93' 38' 4A92&;283<93' 43' 59H23,

",' 3=' 8<@ 3=' 4;2=' 53@<' 7;<D:3' =3< 28' 8 @X @<=' <3D3433=' ;<' 43=' D 779==;9<3=' &<;@ ;9=' 38' 3= ;H2 5=' J@9' 43B<' 28' ;=@<3<' 53=' 5 H3 7328=' 38' 53=' B9B<3=' 23D3==;9<3=' 4A; <3=' 53=' 38;8=' J@9' 53@<' =39A 28' <379=' ,

$#,' ;' < =3283' D; 98@5;89 2' =3<;' <833' 43' =@983' ;' 2' GD35532D3' ,' 53' 4JD' 43' B9H ' D 77;24;28' 32' D:3&' 53=' 8< @ 3=' &<;2&;9=3=' 32' = ;H23' ;<' @2' &&9D93<' &<;2 ;9=' J@9' 43B<;' 38<3' 3=D <83' ;<' 43=' 8< @ 3=' 43' 59H23' 3= ;H2 53=,

$,' ' 3=8' D 2B32@' ;<' 53=' 43@G' ;<7 33=' J@A95' =3<;' ;X @83' D 773' ;<89D53=' =@ 537328;9<3=' '5;' D; 98@5;89 2' D3' J@9' 3@8' ;B 9<' 484' 79=' 38' D3' J@9' 95<.' <;98' 32D <3' ;@H73283<' 53' C932.38<3' 43=' 8< @ 3=' &<;2 ;9=3=' 324;28'53@<' =3X @<' 32' = ;H23' 38' 324;28'5;' 8<;B3<=33,

16 $

) 9,/4' .* " .' # 4/.& *' %323<;5' 43' 9B9=9 2,

' ' , ' 3 /4*' %323<;5' 43' <9H;43,

(/ *-4' .& */' ; 98;2.%323<;5' 43' %<;2;4;,

' ' ' % ' N,

<8,' `;' 2' ;' 43X;' = 559D983' 4@' < 9' 4A 2H5383<<3' 38' 43' A;79<;@83' ;2H5;9=3' 43=' ;==3. <8=' @<' 5;' =@<383' 4@' ;==;H3' 43=' 8< @ 3=' &<;@ ;9=3=,

$;' A37C;<J@37328' =A3&5 3D8@3<;' =@<' 43=' B;9==3;@G' 43' A3=D;4<3' 3= ;H2 53' @' =@<' 8 @=' ;@8<3=' C;897328=' 43'8<;2= <8' J@9' =3< 28' 24D3==;9<3=' @<' D 24@9<3' 53' 8 8;5' 43=' 8< @ 3=' &<;99 ;9=3=' ;@' 7 92=' ;<' 49B9=9 2' ;' D 7732D3<' ;<' D3553' 4@' H3)23<;5' @ 28' 38' 97 7349;837328' ; <3=' D3553' 4@' H323<;5' /3435,

I,' 3' 43C;<J@37328' =A3&&3D8@3<;' =@<' 53=' D 83=' 4@' ;2H@34 D' @' 43' < B32D3' @' C932' ;@ <8' 43*' <9328' =35 2' J@3' 53' B 6;H3' =3<;' X@H3' 5@=' D 77 43' 38' 5@=' D @<8,

L,' 2' 37C;<J@3<;' 43=' B9B<3=' @<' @2' 7 9=' 38' 5@=' ';&92' 43' <3B329<' 8 @=' 53=' ;DD94328=' 43' 5;' 2;B9H;89 2,

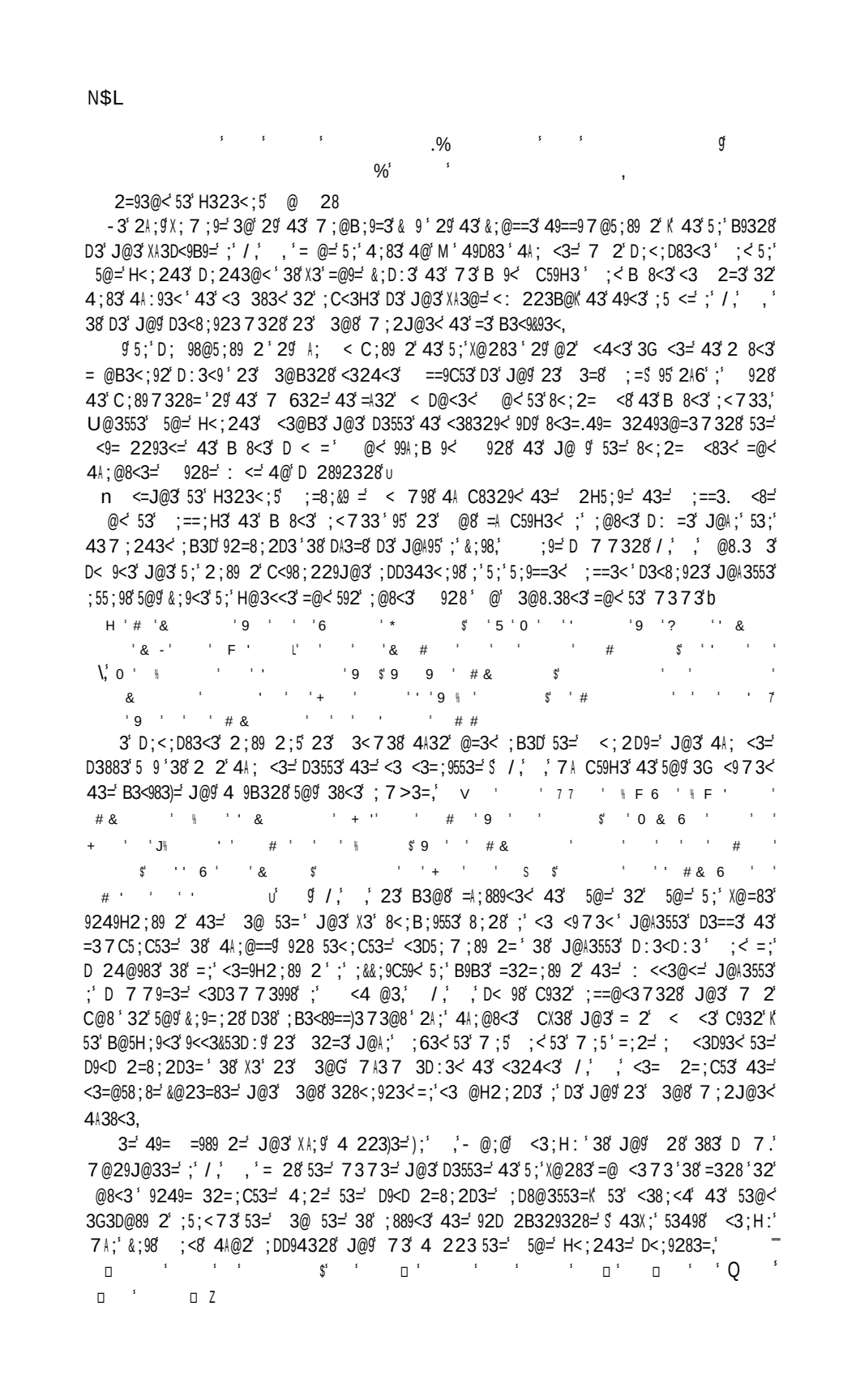
' ;2=' 53' D;=,J@A 2' 2A C8928' ;=' 43' A 2H5383<<3' 53=' ;==3. <8=' 43' =@<383' J@A 2' ;' 437;243=' ;5 <=' 2' 8<;983<;' 43=' 7 632=' 53=' 5@=' < <3=' @<' 53' ;==;H3' ;<83<<3,

N,' :;J@3' 49B9=9 2' 43=' 8< @ 3=' &<;2 ;9=3=' =3<;' D;28 2233' =@<' 49&&3<328=' 928=' 4;2=' @2' <;6 2' 43' :@98' ;' 49G' 593@3=' 32' ;88324;28' J@3' 53' =@=498' 37C;<J@37328' ;98' = 2' 3&&38,

92=9&;98' ;' 3B9553' 53' N' ; @8' M##M,

) 9,/4' .* .

N$L



&' D 28<9C@89 2= ' <3J@9=989 2= ' ; 24' D5; 97 =' &' 8 : 3' <32D : ' % B3<2 7 328\' ; H; 92=8' 8 : 3' =@CX3D8=' &' <8@H; 5 ' <' 8 : 3<' 9249B94@; 5=' <3=9492H' 92' 8 : 9=' D @28<6 '& @2434' 2' 8 : 3' DD@ ; 89 2' &' <8@H; 5' C6' 8 : 3' <32D : ' 8< =' =92D3' 3D3 7 C3< ' M# ' ? : 9D : ' 7 ; 6' 2 8' : ; B3' C332' ; 94' @ ' ; <3' D; 2D35534' 5' ; 24' ; 55' =3J@3=8<; 89 2=' 5; 94' @ 2' 8 : 32*' < 3<86 ' 7 B; C53' <' 9 7 7 B; C53 ' ; <3' <3 7 B34 ' ; 24' 18 : 3' &<33' 49= =; 5' &' 8 : 3' =; 7 3' 9=' <3=8 <34' 8 ' 8 : 39<' < 3<' ?23<=,

! / &,' 55' =@CX3D8=' &' <; 2D3 ' / <' &' ?3<=' 92' &<9324= : 9 ' <' ; 559; 2D3' ?98 : ' <; 2D3 ' 4 7 9D959; 834' 92' <8@H; 5 ' <' ; DD94328; 556' 92' 8 : 9=' D @28<6 ' = : ; 55' C3' < V 83D834,' : 39<' < 3<86' &' 3B3<6' >924 ' 7 B; C53' ; 24' 9 7 7 B; C53 ' = : ; 55' C3' <3= 3D834 ' ; 24' 8 : 36' = : ; 55)' C3' ; 8' 59C3<86' 398 : 3<' 8 ' ; DD4 7 ; 26' 8 : 3' <32D : ' ; <76' <' 8 ' <3 7 ; 92' 92' <8@H; 5,' 2' 398 : 3<' D; =3' 8 : 39<' < 3<86' 9=' H@; <; 28334' 8 ' 8 : 3 7' ?98 : ' 8 : 3' 59C3<86' &' <38; 9292H' <' 49= =92H' &' 98 ' ; 24' &' ; ==92H' 8 : 3' = ; 53)' &' 98' 928 ' <; 2D3' <' ; 26' 8593<' D @28<6' ? : 3<3' 8 : 36' 7 ; 6' &9G' 8 : 39<' <3=9432D3 ' 8 : 3' = ; D3' &' 23' 63; <' : 3 7 H' ; 55 ?34' 8 : 3 7 ' & <' 8 : ; 8' @< =3,

8' 9=' &@556' @243<=8 4' 8 : ; 8' = : 9 92H' 9=' 3,GD3 834' &< 7 ' 8 : 9=' ; <<; 2H3 7 3288 256 ' : ?3B3<' ; =' <3H; <4=' 53; B92H' 8 : 3' <8 ' ; 24' 8 : ; 8' 2 23' &' 8 : 3' =89 @5; 89 2=' ; C B3' 7 3289 234' D; 2' C3' 7 ; 43' 8 : 3' <383G8' &' ; 26' D 7 7 3<D9; 5' = 3D@5; 89 2,

! / ,' ' 2; 89B3' &' <8@H; 5' = : ; 55' C3' <3243<34' ; DD @28; C53' & <' : 9=' 5989D; 5' D 24@D8 ' 4@<92H' 8 : 3' 3<9 4' &' 8 : 3' DD@ ; 89 2' &' 8 : 9=' D @28<6' C6' 8 : 3' <32D : ' ; <76,' 24' ; 55' 8 : =3' ? : ' : ; B3' D 2892@34' 92' 8 : 3' 3G3<D9=3' &' 8 : 39<' 3 7 5 6V 7328=' <' ? : ' : ; B3' ; DD3 834' =98@; 89 2=' @243<' 8 : 3' <32D : ' % B3<2 7 328 ' ; <3' 5; D34' @243<' 8 : 3' < 83D89 2' &' 8 : 3' <989= : ' D 7 7 ; 243<=,' : 36' = : ; 55' =@&&3<' 2 ' 92X@<6' 92' 8 : 39<' 3<= 2=' <' < 3<86 ' 98' 2 8' : ; B92H' C332' ; 8' 8 : 39<' 89 2' 8 ' C3' C3493288' <' 2 8' 8 ' 8 : 3) <32D : ' % B3<2 7 328,' : 36' ; <3' ; 5= ' ; 8' 59C3<86' 8 ' ; B; 95' 8 : 3 7 =35B3=' &' 8593' =89 @5; 89 2=' &' 8 : 3' =9G83328 : ' ; <89D53,

! / ,' : 3' ; 29=' 8< =' 438; 9234' 2' C ; <4' = : 9 ' 92' 8 : 3' <8' &' 9=C 2' = : ; 55' C3' H9B32' @ ' 8 ' 8 : 3' %323<; 5.92.D : 93&' &' 8 : 3' <989= : ' ; <76 ' ? : ' 32H; H3=' 8 ' C8; 92' &' 8 : 3' ; 29; <4=' 8 ' <3=8 < ' =@D : ' <32D : ' =@CX3D8=' 398 : 3<' 79598; <6' <' D9B95 ' 4=' 7 ; 6' : ; B3' C332' 438; 9234)' 92' ; 92 ' ?98 : @8' : ; B9 H' C332' 8; >32' 92' C; 8853' <' 92' D 2=3J@32D3' &' 79598; <6' 3<; 89 2=' C@8' 2' 8 : 3' DD; =9 2' &' 8 : 3' DD@<V <32D3=' &' 8 : 3' $"8 : ' &' 569; 6' 5; =8 ' ; 24' 8 : 3' 4; 6=' 9 7 7349; 8356' & 55 ?92H,

! !,' : 3<3' = : ; 55' C3' ; 2' 9 7 7349; 83' 3GD : ; 2H3' 3=8; C59= : 34' & <' ; 55' <; 2>=' &' <9= 23<=' 7 ; 43' 92' <8@H; 5' =92D3' 8 : 3' D 7 7 32D3 7 328' &' 8 : 3' <3=328' : =8959893=,

! !,' =8; H3=' &' 8 : 3' <; 2>' &' &9354. &&9D3<=' = : ; 55' C3' 7 @8@; 556' &@<29= : 34' :' 8 : 3' ; <8' &' 8 : 3' <989= : ' ; <76' ; 24' 2; B6 ' ; 24' 2' 8 : ; 8' &' 8 : 3' <32D : ' ; <76 ' & <' 8 : 3' <3D9 < D; 5' H@; <; 2833' &' 8 : 3' <3=328' 2B3289 2,

: 3' &&9D3<' <3 <3=32892H' 8 : 3' <989= : ' ; <76' 8 ' C3' <3=8 <34' 2' 8 : 3' D 7 5389 2

)' : @' 73; 292H' &' 8 : 9=' 44' ; 24' D<; CC34' : <; =3' 9=' = : ?2' C6' 8 : 3' <32D : ' 4@ 59V D; 83' &' 8 : 3' 2B3289 2 ' 4A32' &; 9<3' ; ==3<' 53' < 4@98' 32' <; 2D3,' @<<; 6' = : @54' : ; B3' ?<98832' ' 8 : 3' < D334=' 92=83; 4' &' ' 8 : 3' = ; 53,A

* @<<; 6A=' 2H59= : ' 4 3=' 2 8' : 3<3' 8<; 2=5; 83' 03553<7 ; 22A=' <32D : K' 8 : 3' 5; 883<' : ; =' 43832@=' 32' = ; H23 ' 9,' 3,' ' ; 8' <3=328' <9= 23<=' 92' ; 92 ' 2 8' ' ? : ' 7 ; 6' : ; B3' C332' 438; 9234' 92' ; 92,' <' 8 : 3' 3<= 2=' 92832434' ?3<3' <9 7 ; <956' %323<; 5' U@3=235X' 9=' =8; && ' ; 24' 3=D <8' ? : ' : ; 4' C332' =39R34' 92' <8@H; 5' ; 24' 8 : 32' 8; >32' 928 ' ; 92,.' : 3' D5; @=3' ; 5= ' D B3<34' = 73' <32D : ' &&9D3<=' ; 24' D 7 79==; <93=' ? : ' : ; 4' C332' =39R34' ; 8' ; 4; X R' ; 24' 35=3? : 3<3' ? : 953' 7 ; >92H' 8 : 39<' ? ; 6' 8 ' 9=C 2' ; 8' 8 : 3' 7 7328' ? : 32' 8 : 3' 92=@<<3D89 2' C< >3' @8,

'' = = $

Q

&'8:3' ;<89D53=' ?:9D:' D 2D3<2' 8:3' ;<76' ;24' 8:3' &&9D3<' &'8:3' 2;B6' 2' 8:3' 49=37C;<8;89 2' &'8:3' <32D:' 8< =' 92' 8:39<' ?2' D @28<6,' :3' 59>3' 9=' 8' 8;>3' 5;D3' 2' 8:3' ;<8' &'8:3' <32D:' ;<76'*

!! ,' 8' =:;55' C3' >' 8' 8:3' %323<;5.92.D:93&' &'8:3' <32D:' ;<76' 8' =324' ;2' &&9D3<' 8' <;2D3' ?98:' 9283559H32D3' &'8:3' <3=328' 2B3289 2,' B3==35' ?955' C3' &;79=:34' C6' 8:3' <989=:' 479<;5' 8' D;<<6':97' 8' <43;@G' <D:3& <8,

!! ,' :3' <989=:' 479<;5' ?955' C3' 92B9834' 8' ;DD 77 4;83' 9=' GD35532D6' 8:3' 2@2;243<.92.D:93&'*;24' 8:3' 8:3<' <92D9;5' <32D:' &&9D3<=' 2'C;<4' &' =:9 =' &'?;<,

23';24' D 2D5@434';8' 9=C 2'8:9=' 8:9<83328:' 4;6' &' @H@=8,' M##M,

/ 40/' #-44 ' U@;<,. ;=,.%32,

K/ /4 ' %323<;5' 43' 9B9=9 2,

:<33' @297 <8;28' =@ 537328;<6';89D53=' ?3<3';4434' 23' =89 @5;892H' 8:;8' <32D:' D9B959;2' <9= 23<=' 92' 8:3' :;24=' &'8:3' 2H59=:' <' <8@H@3=3' =:@54' C3' <353;=34';2 8:3<8:;8' 8:3' <32D:';<76'=:@54'=@C=9=8' 2' 98=' ?2' 7;H;V R923=' 8955' 98' 37C;<>34';' 8:9<4' 8:;8' 8:3' <989=:'=:@54';55 ?'8:3' &<33' 328<6*' &' <B9=9 2=' 928' 9=C 2';&83<' 8:3' =9H2;8@<3' &'8:3' 2B3289 2,

$,' ' ' ' ' ' U ,

2';'D 2=943<;89 2' &';55' D9<D@7=8;2D3=';=' =38' & <8:' 92' 8:9=' 3 <8' ?3' 7 =8' :@7C56' =@C798' @<' 929 2'8:;8' 2' &@<8:3<' 79598;<6' <D33492H' 9=' 23D3==;<6' 2' 8:3' =@CX3D8,' 3D;@=3':?=3B3<=73' &'@=' 7;6' 49&&3<' 92' @<' =32897328=' <3=3D892H' 8:3' &9823==' &'8:3' 2B3289 2' 92' 8:3' <35;89B3' =98@;89 2' &'8:3' 8?';<793=' 98' 9=' 4@<' @2;297 @=' 43D5;<;89 2'8:;8' @2J@3=89 2;C53' R3;5';24' &9<7V 23==';3;<8:<@H:@8' 8':;B3' C332' 3G:9C9834' C6' 93@8,.%323<;5=' 9<' 3?' ;5<67 53' 9<' ;<<6' @<8;<4';24' 9<' <8:@<' 3553=536' ;=?355';=999;8' 8:3' ;<4 @<';24' H;55;28<6' '8:3' <3=8' &'8:3' &&9D3<=';24' =5493<=' 2'3B3<6' DD;=9 2' 4@<92H' 8:9=' 3G 34989 2':;B3' 4 23':2@<8,8:3' 8<' =';24' <3&53D834' 5@=8<3' 2' @<' ;X3=86=';<7=,

55' ?:9D:' 9=' 7 =8' 4@89&@556' =@C798834,

0 9H234P

9,2' -2.'%323<;5,' /*37,/2'%323<;5,' %,' -0/*' 93@8,.%32,' # ,4 '%323<;5,' / 4 L/' 93@8,.%32,' ' ,&3 ,.' 93@8,.%32, /*/4' 4 ,0'%323<;5,

3D' $$ M#M,

I,' ' A')' ,A

'&335'53==';?>?;<423=='92 C3692H'8:3' <43<'8'438;95' 76' =3289 7328=' 2' 8:3' 2;8@<3' &'8:3' 2B3289 2'C3D;@=3' 8:;8' ':;B3' ;5<3;46X 9234' 92' 8:3' 8<9C@83' &';5;@=3' 4@3' 92' 8:3<' <3=3D8=' 8'8:3' &&9D3<=' D 2 37 34,' 6

I' :3':=8;H3& <8:3' 2H59=:';<76';=' 5,' 2>92,' 'D;22 8'&924) @8'?:' ?;=8:3'2;B;5':=8;H3,

*9,'3,'-@2 8';24':9=' D:93&' &&9D3<=' <3&3<<34'8:3':=98;59893=' &';' 7;2' &'?;<8'8:3':;<4'&;<3' &';'8<;2=' <8,

929 ; '8:3<3& <3'9= 256' =34'8 '8:39<= 2' ;' J@3=89 2' &'X@4H7328'?:3<3' 8:39< 8;5328= ;<3' 59>356' 8 ' :;B3' = ' 7@D:' 7 <3' ?39H:8' ;= 8 ' <3243< 8:3' < &3==9 2' &' 76' 49&5 3<32D3'3B32' 2'8:;8' 928'= 73?::8' ;92&@5,' 9598;<6' 4@86'9=' : ?3B3<'97 3<9 @= 2' 73'2 8'8 ' 49=H@9=3' < J@;59&6'8:3' 434@D89 2= ?:9D:' ' :;B3'7 ;43'4@<92H'8:9=92B3=89H;89 2,

2' <79=89D3'=97 56'79H:8'2 8' :;B3'C332' CX3D89 2;C53 'C3D;@=3' 9< 3?' ;5<67 53 '3G 3D892H' : @<56'8:3';<<9B;5' &' 9< - :2' <3&= 49B9=9 2 '79H:8' =33' 7 <3';4B;28;H3'& < :97=35&'92';' =: <8'=@= 32=9 2' &' : =8959893='8:;2'?:;8' 8:3' <32D:'D @54'4<;?'&< 7'98,' @8';= 8:3' <79=89D3'92B 5B34';24'92'&;D8' 3=8;C59=:34'8:3'?: 53' <92D9 53' &'8:3' 2B3289 2' 'D;22 8'=3 ;<;83'98'&< 7' 8:3'5;883<,

9< <8:@< 3553=536' :;= =8;834'8:;8' :3' D 2=943<34' :9= & <D3';8'8:3'D 7V 732D373328' &'8:3'7 ;<D:'&< 7'8:3' 243H '<9B3<';= =@&&9D9328'8 '4<9B3'8:3' <32D:'&< 7'8:39< =989 2= 2'8:3' ;H@=,' :;8'& <D3'9=@C=3J@32856'X 9234' C6';C B3'L ### <989=:'8< ='97 43<%323<;5= 2=8<@8:3<;24' D5;24,' :3' <32D:'7 ;>3';2';88;D> ?98:'8:39<?: 53'49= =;C53'=8<32H8:';24';<3'<3 @5=34' ?98:':3;B6'5 ==':8: @H:'C@8';' ;<8' &'8:3' <989=:';<76'9='C< @H:8'928';D89 2,' 8'9= 49&&9D@58'8 ' D 2D39B3'8:;8'8:3' < = 3D8= ?:9D:' 9< <8:@< 3553=536' 3283<8;9234'D @54'C3'@2&;B @<;C56';583<34'C6'8:3=3'3B328='3B32':;4'2 8'8:3' D3<8;9286' &'= 3346'<392& <D37328=8 '8:3' <989=:.;<76'3G9=834,

8'9= @<H34'8:;8':;4'8:3' <32D:'C332' @=:34'8 '3G8<37986'8:36' ? @54' :;B3'D< ==34'8:3' ;H@='; 24';;B3' < 8<;D834'8:3'D;7 ;9H2'92'=@D:';' 7;223< ;= 8 ' :;B3'&<@=8<;834'8:3'7 <3'97 <8;28'B93?' &'8:3' <989=:'%323<;5='2;7356*=32492H'=@DD @<= 928 ' ;92,

:9= 73;=@<3'7@=8 :;B3'C332'3J@;556'&3;=9C53'& <'8:3' <32D:'9&'2 ' B9D8 <6' :;4'C332' C8;9234' B3<8:377$ C@8' 'D 2&3==8:;8'8:3'D:;2D3' &'=@D:';2' ;8837 8' =337= 8 ' 73' ;==@734';H;92=8' < C;C95986,' 9< 3?' ;5<67 53' 2 89D3= ?:;8':3'D;55=?'8:3'D<989D;5';24'37C;<<;==34'=8;83' &'-@2 8 C3& <3' 8:;8'%323<;5::= C332' <3==34'C6'8:3' <989=:';<76$;24'92'3G 5;2;89 2' &' 8:;8'3G <3==9 2' C=3<B3='8:;8'8:3'=@<<3243<' &' @ 28'8:3'3G9=832D3' &'8:3' B9D8 <9 @= ;29=:';<76'92' 24;5@=9;' ?:9D:'D@8' &&'8:3'<38<3;8' &'8:3' <32D:' 92' 8:;8' 49<3D89 2';24'8:3' @29B3<=;5 : =8959867' &'8:3' <8@H@3=3' 7;43'8:3' =98@;89 2' &'-@2 8' 23' &'H<3;8'49=8<3==,' '837 8;89 2'& <'8:3'8<;2=5;89 2' &'8:3' ?;<928 ' 53283X ' <3=328='98=35&'&< 7'8:9=, 9D8@<3$ 2 <'4 3= ;26' 8:3<'<3 <3=328;89 2' H9B3'H< 974'8 ' =@ =3'8:;8'-@2 8' D @54';:;B3'D 2V 837 5;834'8:3'73;=@<3';= : 5492H)& <8:';26' < = 3D8'C@8'@5897;83'<@92';&83< 7@D:' <3597 92;<6'49=8<3==' ;24'49=H<;D3,' :3'=8< 2H3=8' &';55' < &= ;= 8 ' -@2 8= 929 2';<9=3= &< 7' :9= =32492H'8:3'B3<6'7 <292H' ;&83<8:3'C;8853' &'/9793<;'8 ' < =3'8:3'3B;D@;89 2' &' <8@H;55 ;' =83 ' ?:9D:'=@&&9D932856' 9249D;834'8:;8':3'?;= ;89=&934':3'D @54'2 8' 256'7 ;>3'2 '3&&3D8@;5'43&32D3' C@8'D @54'2 8'3B32' < 5 2H'8:3'D 283=8'8 '8;>3'8:3'D:;2D3' &';DD94328=,' 3' =337='924334'8 ' :;B3'C332'?9X: @8';26'<3;5'<3= @<D3,

' :@7C56'D 2D39B3'98'8 ' :;B3'C332'3<< 23 @= 8 ' <3H;<4'8:3'37;2D9 ;89 2' &' <8@H:5'&< 7'8:3' <32D:' ;= 8:3' = 53' < 8:3' <92D9 ;5' CX3D8' &'8:3' 3G 34989 2, 2'?:;83B3<83<<98 <6'?3'D 28324'?98:'8:3' <32D:'98' 7@=8' C3';' < 792328' CX3D8'92'8:3' =8<@HH53'8 ' 43=8< 6'8:39<' <3= @<D3=' ;24'8 ' 2;<<?'8:39<73;2= &'92X@<92H'@=' <'8: =3'?: =3'D;@=3'?3' ;<3'=@ <892H,)

N I #

: 9= =33 7= 8 : ; B3 : 332 = 598853 D 2=943<34 92 8 : 3 2B3289 2 8 : ; 8 8 : 3 183<7= ; 3;< 8 : ; B3 3G8<9D; 834 -@2 8= ;<7 &9 7 ; =98@; 89 2 &92&92983 49=8<3== 92 ? : 9D : 98 ? ; = ? : 556 @8 & 5; 6 ; 24 8 : ; B3 C< @H : 8 98 92 ; =8; 83 &3289<3 3J@9 29328 928 9 7 7 349; 83 D@<<32D6 92 ; J@; <83< 8 ? : 3<3 98 7@=8 9283<&3<3 ?98 : @< 7 =8 @<H328 ; 24 9283<3=892H D 2D3<2=,

; 4 98 : 332 9 7 <; D89D; C53 8 <34@D3 8 : 3 <32D : ; <7 6 8 5; 6 4 ?2 98= ; <7= @2D 24989 2; 556 =89 ; 2 C59H; 89 2 2 8 8 =3<B3 & < ; = 3D9&934 89 7 3 7 9H : 8 : ; B3 C332 92=9=834 @ 2 < 35539=53 7 9H : 8 : ; B3 : 332 <3=D<9C34 ; = 8 : 3 5; D3 ; 8 ? : 9D : 8 : 36 = : @54 C3 5; 2434 92 <43< 8 <3B328 8 : 3 ==9C95986 & 8 : 39< <392& <D92H 0; 8 53; =8 & < ; 5 2H 89 73 8 : 3 ; <793= 3 7 5 634 & < 8 : 3 =@CX@H; 89 2 & ;92, 3< : ; = ; =8< 2H3< D 2=943<; 89 2 8 : ; 2 8 : 3 7 3<98 & 8 : =3 83<7= <3=328= 98=35&, 929 2 <35; 89B3 8 8 : 3 <989= : ; <7= ?; = & 8 : 3 : 9H : 3=8 9 7 <8; 2D3 ; = 98 7 9H : 8 92&9@32D3 8 : 3 D 2&9432D3 & 8 : 3 ; 29; <4= < 92B983 8 : 3 2; 89 2= H< ; 292H @243< 8 : 3 6 >3 & <; 2D3 8 ; 3; 5 8 8 : 9= D @28<6 ; 24 D . 3<; 83 ?98 : 98 & < 8 : 39< 4359B3<; 2D3, : 3 ; 4B; 28; H3= @H : 8 8 : 3<3& <3 8 : ; B3 C332 7 <3 8 : ; 2 @=@; 556 H <3; 8 ? : 9D : = : @54 C3 433 7 34 =@&&9D932 8 C; 5; 2D3 8 : 3 CX3D89 2 &H<; 2892H 8 ; B3<6 92&3<9 < ; <7 6 : 353== 92 D9<D@ 7V =8; 2D3= ; 24 C< >32 92 = 9<98 =@D : 83< 7= ; = 7 9H : 8 ; <H@3 8 : ; 8 2 8?98 : V =8; 2492H 98= 49= ; <986 92 2@ 7 C3<= 98 ? ; = =8955 & <7 94; C53 8 98= B9D8 <=, ; 4B; 28; H3= =33 7 8 : ; B3 C332 H; 9234 8 : 3 ? @54 2 8 : ; B3 3J@; 556 & 55 ?34 &< 7 & <D92H 8 : 3 323 7 6 8 ; 7 <3 7 ; <>34 =@C 7 9==9 2, : 3 H; 92 & 89 7 3 ; = 8 =32492H =@DD @<= 928 ; 92 D; 22 8 : 3 ; 4 7 98834 ; = ; 53; $ C3D; @=3 98 ; 3; <= 8 : ; 8 2 ; <<; 2H3 7 328= & < 8 : 3 <3D3 89 2 & @< 8< = 92 ; 92 : ; 4 C332 @243<8; >32 <3B9 @= 8 8 : 3 2B3289 2 $; 24 8 : 9= 9= ?98 : @8 <3; = 292H 2 =@C=3J@328 &; D8=,

8<@=8 8 : ; 8 8 : 3=3 <3; = 2= ?955 B9249D; 83 7 3 &< 7 8 : 3 D : ; <H3 & <3=@7 89 2 92 7 ; 928; 9292H ; 2 929 2 D 28<; 49D8 <6 ,8 8 : ; 8 < &3==34 C6 = 7 ; 26 7 =8 <3= 3D8; C53 &&9D3<=$ & < 3B32 9& 8 : 3 <3; = 2= C3 3==3289; 556 3<< 23 @= 9& 8 : 36 ; <3 D 2D5@=9B3 8 7 6 7924 0; = 7 @=8 D 2=D93289 @=56 ;&&9< 7 8 : 3 7 8 C3P 98 9= ; 23D3==; <6 D 2=3J@32D3 8 : ; 8 7 @=8 49,=; < B3 8 : 3 2B3289 2,

,4 %323<; 5,

3D3 7 C3< $ M##M,

! ,

- %

,

, , :3 2 83= ; = 8 9249B94@; 5= ; <3 3G8<; D834 &< 7 <H@3553=,

^ ' < 4 0 2 <; 2D9=D 7 Q <8H; 493<.%323<; 5 W6 @2H3< C< 8 : 3< & - =3 : ; 5; & G 8 : 3 ; 8; 92.%323<; 5], 2 <32R 9 2 / " M .5 W 28324; 28.%323<; 5 & 8 : 3 <7 6 & <; H 2 5 2H ; C; 2>3< &2 ; 4<94], $, < . * - 4, . 2 %; = ; < : 9 /, C . W @2D955 < 8; 83 = 7389 7 3 929=83< & - @=89D3], : 3 ; <J@9= & Q 1 0 2 93@8, .%323<; 5, I ,, < 8 : 3 4 $. 2 . 593 ; <J@9= & (, - / 9 2 / 4 2

Q

@ ' ' #

$24' 9B9=9DX '%323<;5' # *, / 'K
' ;B;<<3'08? 'C;88=,P$ * ; 53='08? 'C;88=,P$ & 283B34<;'$
8 3H B9;$ -*' / 5@2833<=' &' / 9D8 <6K' 0 23'C;88,P'$ =; 3<='
23'D 7 ;26$;B;5<6'K' * 392;'08? '=J@;4< 2=P'$ ' 2.'
83=;'0 23' =J@;4< 2P$;24' 23' 438;D:7328' &' 79G34' <3H9V
7328=;' W :3'D;B;5<6' ?;=' I#$=;C<3='92';55,] ' L "L"
I<4' 9B9=9 2'%323<;5' ", - , 'R
'%3< 2;' 9H:8' 2&;28<6'0 23'C;88,P$ *' 3B9553'08? 'C;88=,P$
' ;<923='08:<33'C;88=,P'$ 8 7 =8355;'0 23'C;88,P$ 23
D 7 ;26' &'=; 3<=,,,

N I L

;B;5<6' *' L8:' @==;<=' 0)' / 5@2833<=' &' ;92'AP ,,,,,,,,,,,,,,,,,,,,,,,,,,,, IN#
; 3<=' 8? ' D 7 ;293=S' ;<89553<6' 8? ' C;883<93=,, L#M

$24' 9B9=9 2' %323<;5' / /.*4 . 'R
AT ;55 2' %@;<4=' 0L8:' C;88,PS' SZSN;4;X R' 08? ' :;88=,PS' - / ;532D9;'
43' 5D;28;<;S' XSQ;&<;' ,' ,' ,' ,' ,' ,' , , , ' * I I##
;B;5<6' 8:' @==;<=' 0 ;<9;' @9=;P' ,' ,' ,' ,')' ,' ,' $"M
; 3<=' 8? ' D 7 ;293=' S' ;<89553<6' 8? ' C;883<93=,,' ,' ,' ,' * LL#

I<4' 9B9=9 2' %323<;5' 3, .'K
,8 ;4;X RS' - <@G955 ' 0 23' C;88,PS' - 3<94;S' - ;' 3<32;' ,' ,' I NM##
;B;5<6' $24' @==;<=' 0 @=98;29;P,,,,,,,,,,,,,,,,,,,

;B;5< j * @=;<3= = ;&9 53= $##
<8 53<6 23 C;883<6 0=3B32 HK9 7=P ML
I<4 9B9=9 2 %<323<;5 / L R
*%<;2;4; 08? C;88=,P "N S -$24 3<D9 &' ;<<;H 2; "$$S
(2 9B9=9 2 &' <R@ I$ S 7 ; 9;= @358;= $N#, $ L M
L8: 9B9=9 2 %323<;5 # 3 . R
-5=8 3<D9 &' 3<94; M $S -4988 &' / 9D: " N S -4988 &' ;2.
<3=; "I S -4988 &' / ;553= "$,,,

W <'8:3=3' & <D3='D 7 ;<3' ' ' &' D8,'$ 'H9B92H' <H;29R;89 2' &'8:3' <76' &' =8<37;4@<;' ?98:'8:3'59=8' &'8< ='?:9D:'7;<D:34'&<?;<4'8' @<H ='92'&9<=8' =3D89 2' &'8:9=', 3249G,' :3';C B3' <3H97328=*'<37;9234' C3:924' ;24';<3'& @24'92'3G9=832D3'92' @3=8;A=';<76'23G8' = <92H,' 33' 3249G'8 'B 5,'99'H9B92H':9='& <D3=,]'(

N,' ' & ,

I' :3<3';<32856'<37;9234'92'H;<<9= 2'92'8:3' ;53;<9D' =53='92' B37C3<' 8:3'& 55 ?92H'8< =K '

*L8:' ?9==0 3=D:;<4P'08?'C;88=,P'$ $ S *'%<;2;4;'0 23'C;88,P'$$$S n <9;'0 23':;88,P'L IS'8 ;X <D;'N#L,' 8;5 I IN#'

,' ' / ' / ,

W =856' 2'8:3'7;<D:'8 ';<;H ==;'92' B37C3<'M##M,' :3'&9H@<3='7;9256' &< 7';'<38@<2' &'-;2,' ';<3'8 '5 ?'& <'8:3' B37C3<'=8<32H8:,]

*'N8:' ?9==0 <;G53<P' N S' -5=8 9<;4 <3=43' @<D9;'M IS' -$24' 4988 ' $LS' I<4'/ 5@2833<=' &' @<D9;' N S' K 8:'4988 ' # S -' 5 <94;. 5;2D;'IN$'S' KI<4' &'/;532D9;'0&9H@<3='?;2892H'S'Y'N###P, 8;5 N L

M,.' ' / ,

n = ;&9;'08:<33' C;88=,P' #I"S' q'-3<3R'N LS' 8 ;5;H;' L# S' 8 24;'N LS' 8 D9X;'NM",' 8;5 I

'-$24' &' 3B9553'N##S' 5SL8:'4988 'LMIS' - ;R;4 <3=' &' ;5;H;'0 23' C;88,P' $##S' -/353R' ;5;H;'08:<33' C;88=,P'$ L##S' K$24' &' 283J@3<;'0 23'C;88,P' $##S' - =22;08?'C;88=,P' #N ,' 8;5 N "L

2';44989 2'8:3'& 55 ?92H'<3H@5;<'<3H97328=':;4'3;D:';=' 98'? @54'=337' 53&8'8:3' ' &' 23'C;88;59 2'C3:924'92' 24;5@=9;'8 '<3D<@98'C3& <3'7;<D:92H' 8 '8:3' C< '8 'X 92' ;=8;@ =K &<9D;' @<H =' ;28;C<9;' &3@8;' < 2;' <4 B;' @<D9;',' :;8'8:3'8 8;5' &'8:39<' 2@7C3<=' 7;6' :;B3'C332'92' B37C3<';24' 3D37C3<'98'9='97 ==9C53'8 '=;6 3<:;'=L## 3;D:'7;6'C3' ;55 ?34'H9B92H';'8 8;5' &'$M##,' &'D;B;5<6'<3H97328=' 8:3<3'7@=8' :;B3' C332'92'3G9=832D3#92' 24;5@=9;'8:3'2@D53@=' &'8:3'& 55 ?92H'23?'<3H97328=K ' - 3-;=S' - 28;2;='43' <4 B;S' -%<;2;4;',' :39<'& <D3'?;=' 8<9&592H ;' =92H53'=J@;4< 2' <';8'7 =8'8? ',' &'?3'H9B3&8:37'N## 732'92';55'?3'=:;55 <C;C56'C3'2 8'&;<'?< 2H,' 3B3<;5'<3H@5;<'D;B;5<6'<3 7328=':;4'53&8'8:3' ' &' 23'<'8? '=J@;4< 2='C3:924,

:3'3G9=832D3'&';55'8:3=3'<3H97328='92' B37C3< 3D37C3<'D;2'C3' < B34,' :3'$24';24'L8:' &' 3B9553'<3;D:34' ;4<94'92'8973'8 ' 92'92'98='43&32D3

NL#

!

M##M,

=8<32H8:' &'8:3'D < ='::?3B3<'D 73='&< 7';2' D8 C3<'<38@<2';24'8:3<3':;4' C332'=3B3<;5'D:;2H3='; 8'8:3'324' &'8:;8' 7 28:,

;.*' 41.' 9/ ;<=:;5' (,&* 4' @>3' &' 355@2 ,

=8' 9B9=9 2'0 @&&92PK
"8:' H3<'8:<33'C;88=,
$L8:' &'8:3' 923'8:<33'C;88=,
"N8:' E' & 4<'C;88=,

$24' 9B9=9 2'0 ; 9==3PK
N8:' 3H3<'8:<33'C;88=,
M8:' &'8:3' 923'8:<33'C;88=,
LN8:' ' 8:<33'C;88=,
NL8:' E' 8:<33'C;88=,

I<4' 9B9=9 2'0/955;883PK
$ 8:' 3H3<'8:<33'C;88=,
NI<4' &'8:3' 923'8:<33'C;88=,
"L8:' E' 8:<33':;88=,
"N8:' ' 8:<33'C;88=,

< =' ;B;5<6'0 <9H;43'- 3;@7 28P'K
$24' @==;<=,
$N8:' :;==3@<=,

:3'H< ==' 8 8;5' &'8:9='D < =' 2' D8F' #'?;=' II "I '732' &'?: 7'$ $#'
?3<3'438;D:34';24'$ "I '" 92': = 98;5,' :3'L8:' @==;<=' <9H92;556'C35 2H92H'
8'8:9='D < ='?;=' 8<;2=&3<<34'8'8:3'I<4' < =' C6' B3 7 C3<,

< 2' 41.' ;<=:;5' ^ 'K;&83<' B,'"' ;<=:;5' - *

=8' 9B9=9 2'0 @8 2';&83<?;<4=' 3<53PS
$24' H3<'8:<33'C;88=,
L8:' ' 8:<33'C;88=,
N8:' &'8:3' 923'8:<33'C;88=,
IN8:' E' 8:<33'C;88=,
W%;<43'43' ;<9=' 23'C;88,]

$24' 9B9=9 2'0 3<53';&83<?;<4=' 3<.'
7 38PK
I =8' H3<'8:<33'C;88=,
L 8:' &'8:3' 923'8?'C;88=,
#8:' ' 23'C;88,
MN8:' ';' 23'C;88,)',
=8' @ 56,' 3H8,'
&'8:3' 3H9 2='<e' $$24' &'8:3'
&' 3=3<B3' 9' 923'& @<'C;88=,
$24' 4988'
$24' ?9== 3H9 7328' 23'C;&8,
I<4' E' Y' 23'C;88,

I<4' 9B9=9 2'0 2238P'K
I8:' < B,' 3H8,'9 e'- "8:' &'8:3'
L8:' E' ' 923'& @<'C;88=,
8:' ' X'e' $#8:' &'8:3'
M8:' E' ' 923'& @<'C;88=,

< =' ;B;5<6'0 9B9=9 2' ;=;&93P'K
''#8:' <;H 2='08<;2=&3<<34' &< 7'
' 95:;@4P,
#8:' :;==3@<=,
$$24' E

;=;553' ?98:'8:3' "8:' <;H 2='24' #8:' :;==3@<='?;=' 438;D:34';&83<
%;7 2;50 B,' #P';24'<3 5;D34'C6' <;2D3=D:9A='49B9=9 2,' :3'D < ='<3D39B34

NL$

N! ' , ;<=:;5 # *,/ ' @>3 &' <3B9= ,

=8 9B9=9 2' 0 @D:38PK
8:' H3<'8:<33' :;883,
IL8:' &'8:3' 923'& @<' C;88=,
L#8:' E' 8:<33' C;88=,
NL8:' E' 8:<33' C;88=,
MM8:' ' 8:<33' C;88=,

$@4' 9B9=9 2' 0%;R;2PK
$ =8 3H3<'8:<33' C;88=,
$M8:' [' 8:<33' C;88=,
##8:' &'8:3' 923'8:<33' C;88=,'
#I<4' ' 8:<33' C;88=,

< =' ;B;5<6' 0 <9H;43' 35;;H3P' K
#8:' @==;<=,' n' $ =8 :;==3@<=,

:3' H< ==' 8 8;5' &' 8:9=' D < =' 2' D8,' # ?;=' $L $' 732' &' ?: 7' MM' ?3<3' 438;D:34' ;24' " '92' : = 98;5,

?*3' 1.' ;<=:;5 / ' @>3 &' 5D:92H32,

=8 9B9=9 2' 0 ;<D:;24PK
N8:' &'8:3' 923'8:<33' C;88=,'
"8:' E' 8:<33' C;88=,
N"8:' E' 8:<33' C;88=,
N8:' E' 8:<33' C;88=,

$24' 9B9=9 2' 0 ;H<;2H3' ;&83<?;<4=.'
;@<9D3' ;8:93@PK
$ 8:' 3H3<'& @<' C;88=,'
9$ 8:' &'8:3' 923'8:<33' C;88=,
#8:' ' & @<' C;88=,
N"8:' E' 8:<33' C;88=,

< =' ;B;5<6' 0 <9H;43' 5C3<8P' K
I<4' @==;<=,' 8:' :;==3@<=,

593' H< ==' 8 8;5' 2' D8,' # ?;=' IM#II' 732' &' ?: 7' I IM' ?3<3' 438;D:34' ;24' # '92' : = 98;5,' :9=' 8 8;5': ?3B3<'92D5@43=';'49B9=9 2'@243<' 3<738' ?: =3' C;88;59 2=' ?3<3' 8<;2=&3<<34' 8'8:3' $2'-';24' I<4' < ='?:32' 8:3' D;7V ;9H2' C3H;2' 92' B37C3<,' :3' N8:' < ='92D5@492H' 98=' D;B;5<6';24';<89553<6' ::;4' < C;C56'2 8' 7 <3' 8:;2' $# ### 238' ?:32' 98' 8 >'8:3' &9354' 92' 98=' &92;5' & <7,

@*3' 41.' %323<;5 -9, ' *' 4

=8 9B9=9 2' 0 :;C<;2PK
$24' &'8:3' 923' 23' C;88,
8:' *E' 8?' C;88=,'
#8:' ' 23' C;88,'
I 8:' E' 23' C;88,'
N8:' ' 23' C;88,'
"I<4' E 23' C;88,
$24' ?9==' 23' C;88,

$24' 9B9=9 2' 0%323<;5' 3DD:9PK
*$24' 8;59;2' 923' 3H8,' 23' C;88,'
L8:' E' ' 23' C;88,
8:' E' <$' 23' C;88,*
8;59;2' 59;==3@<=' 35 $' 23'
C;88,
=8 3; 598;2' 923' 3H8,'8?'
C;88=,

I<4' 9B9=9 2' 0 3953PK
I$24' 592H3<' 23' C;88,
N8:' &'8:3' 923' 23' C;88,
NN859' E' 23' C;88,
I8:' E' 8?' C;88=,
<B,' 3H8,' &' 3< 9H2;2 & @<
C;88=,
N8:' 3H9 2' &' 3=3<B3' 23' C;88,'
* ' ' 6 $' 23' C;88,'
;88;59 2' &'8:3' /;5;9=' 23' C;88,

L8:' 9B9=9 2'0 @:;7P' K
=8 3H3<'8:<33' C;88=,
I<4' E' 23' C;88,
8:' &'8:3' 923'8?'C;88=,
L$24' E' 8:<33' C;88=,
N 8:' ' 23' C;88,

NLL

I<4' 9B9=9 2' 0 3@43538PK

I =8' 3H3<' 23' C;88,'4<;&834'8 'X 92'98=' <3H8,'92' 3<7 38A=' 9B,' &'$24' < =,'

$24' *' 23' C;88,' M$24' &'8:3' 923' 23' C;88,

$N8:' &'8:3' 923'8? 'C;88=,' ! 6 ' ' $ 23' C;88

NN8:' E' 8? 'C;88=,' ;2 B3<9;2' 3H9 2' 23' C;88,

, , :3' 5;=8.2;734' 39H:8' C;88;59 2=' ;&83<?;<4=' X 9234' C6' 23' &< 7' 9= 2A=' 9B9=9 2' ?3<3'& <734'928 '8:3'L8:' 9B9=9 2' &'8:3'$24,' < =,

:3' ?: 53' D < =' D;B;5<6' &'8:3' M8:' < =',?;=' D 7 =34' &' < B9=9 2;5' <3H97328=' ?:9D:' ?3<3'49== 5B34';24'=328'8 'X 92'8:39<@298=,

:3' M8:' < =' 2' D8,' #:;4';' H< ==' 8 8;5' &'$ I#7 32' &'?: 7'$ I' ?3<3'438;D:34';24' I $I'92':=98;5,

/ ,

0 P' 243 324328' 3=3<B3' 9B9=9 2'0%323<;5' /.. /.''R

$8:' 3H3<'8:<33'C;88=,' =8' &'8:3' 923'8:<33'C;88=,

LI<4' &'8:3' 923'8:<33'C;88=,' 8:' E' 8:<33'C;88=A,

0$P' %@;<4=' &'8:3'092H' &' ;92'0%323<;5' -0 ''R

@<'C;88;59 2=' &' 2&;28<6,' 23' <3H97328' &' ;B;5<6,

0 ?' <3H97328='7;9256' ;29=:'43=3<83<=' ?3<3';4434'92' -;2@;<6,P

:3'8 8;59=D 2&@=34'92'8:3'<38@<2' &' D8,' #?98:'8:;8' &'8:3' 7 3<9;5'%@;<4' ;24'92D5@43=';5='=73'<3H97328='53&8'92'H;<<9=2'92'8:32 <8:'3,'H,'8:3' M8:' &'8:3' 923S' 92D5@492H'8:3=3'8:3' 3=3<B3';7 @2834'8' I###7 32,

/ ' ' / ,

9B9=9 2' &' <;H 2=' * -!# -40'R

<9H;43=' 5432:@<H'3<<397 24' 9H3 2,

=8'$24'L8:'L8:'$#8:';24'$N8:' <;H 2=,

:3'H< ==' 8 8;5' &'8:3'49B9=9 2' 2' D8,' #?;=' I N"N=;C<3=,

9B9=9 2' &' <;H 2=' #, 3 -2'R

:3' $8:' N8:';24'$ =8' <;H 2=,

0 :3' 8:';24' "8:' <;H 2=' <9H92;556'C35 2H92H'8'8:9=' 49B9=9 2'?3<3'8<;2=&3<<34'8' 3&3CB<3';24' ;=;553'<3=3D89B356,P

:3'H< ==' 8 8;5' &'8:3'49B9=9 2' 2' D8,' #?;=' $ "L#=;C<3=' < C;C56'92D5@492H' 23' &'8:3'8<;2=&3<<34'<3H97328=,

9B9=9 2' &' <;H 2=' 3 -.. /'K

<9H;43=' A B32;6';24' ;<9=6,' 0 2' A B32;6'C392H'8<;2=&3<<34'8';2'9243 324328' < B9=9 2;5'C<9H;43' ;@5;9@D @<8'<3 5;D3=':97,P

8:' M8:' "8:';24'$ 8:' <;H 2=,

:3'H< ==' 8 8;5' &'8:9=' 49B9=9 2' 2' D8,' #?;=' $#$#=;C<3=,

9B9=9 2' &' <;H 2=' 40/.'K \'

<9H;43=' /9;5;223=';24' @<293<,

M8:' N8:'$$24';24'$ 8:' <;H 2=,

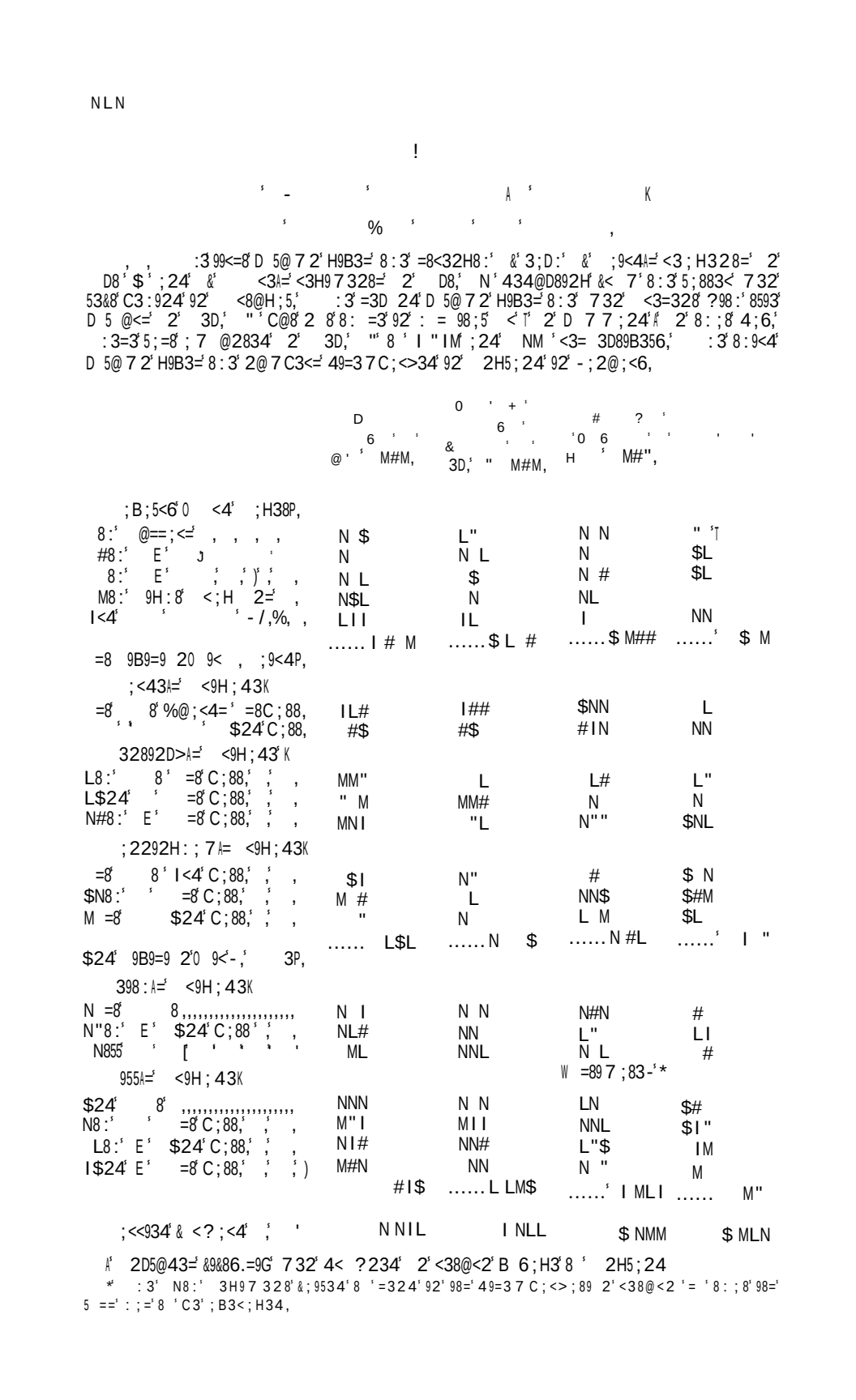
:3'H< ==' 8 8;5' &'8:9=' 49B9=9 2' 2' D8,' #?;=' I #';=;C<3=,

9B9=9 2' &' <;H 2=' #, /*'%K / /3 ';&83<-;2,' M#"P'K' '

I<4'N8:' #8:';24' 8:' <;H 2=,

:3'H< ==' 8 8;5' &'8:9=' 49B9=9 2' 2' D8,' #?;=' $ "#I';=;C<3=,

!



NLM

M $

D3B34 'H323<;5'D 7 7;24=' 49B9=9 2' @243<' 5;>3'L#M$' ? @2434';8' =V 92 =;'L $' 7@<43<34'C6'8:3' <32D:' L$N,
D5;24' C<9H;493<.H323<;5';<<9B3=';8' 329D:3' $L $';8' /9793<' $L". M'$ H9B3=' 3B9432D3' C3& <3'8:3' @<8' &' 2J@9<6'$"L,
&9.;2D3=;4 =';<86' &'8:3'92' ;@X' "
5;'H 2';5;& G'43&3;834';8' LN,
5D34 'H323<;5'H B3<2 <' &' <@22;' =@<<3243<=' 8',' @58' "N,
5D 53;'D 7C;8' &' $",
53G;243<' 7 3< <' &' @==9;' :9=' 733892H'?98:' ; 53 2';8' <&@<8'I , 24;5@=9;' < B92D3' &'<9=3=';H;92=8' 8:3' <32D:'N"'$'98=' H3 H<; :6' L M#,
2=8<@8:3<'C<9H;493<.H323<;5';<<9B3=' 92' <8@H;5'LM'';8' /9793<' $ #.' N'$' 92' D 77;24';8' 5739 4;'L"L'$' 493=';8' <@22;' ",
28 29' 2'C< 8:3<' &' :;<53=' /' ; 92834' :3;4' &' 8:3' -@28;' &' 553H32D6'LM'$'H 3=' 8' ;6 223'N$'$;8'/;53@&;6' N,
<76'8:3' ;29=:' 98=' D:;<;D83<';24' <H;29R;89 2'M"."N'K' ';5=' ;C53=' ;24' 3249D3=' B'B999' fD,
<76' &' ;92'8:3' <32D:'D:;<;D83<' &'8:3' #I. $' &'8:3' =3D 24' # . IK' ';5=' ;C53=';24' V 3249D3=' B9' fD,
<89553<6'8:3' &'8:3' ;29=:';<76')' "L'" $' &'8:3' <32D:';<76' $$' 8;D89D=' &'8:3' $#.$,
=8@<9;=' <92D3' &'8:3K' 3<492;24,
=8@<9;=' < B92D3' &'8:3'43D5;<3=';<' 2' <;2D3'N'$' =324=' 379==;<93=' 8' ' 2H5;24'NN$' =324=' 8< =' 8' 5;>C=' ;<76'IM$'IML,

;H38'-@;2'53;43<' &' ;8;5;2' # 9 7 $ I M' I$$' I$M,
;9<4' 9< ;B94' H323<;5' 5;24=';8' <@22;'LML'L" 'L"M'$;4B;2D3=' 8' =8 <H;'N##$' X 92=' <3';8' ;6 <H;' I$'$? @2434';8' <@22;' NML NM",
;<D35 2;' 8<3;D:3< @=56' =39R34'"C6' @:3=73'IN$' 3<;89 2=< @24'I#$' I M,
;6532'C;8853' &' M ."$'$ 2B3289 2' &' " ."'$ 83G8' &'8:3' 2B3289 2' 3249G'N$ .I
;6 22J$' <32D:'8< =';8'N. $'IL'$ 8<3;D:3<6' &' ; 53 2';8'N .N,
3;@:;<2;9=' ;<J@9=' &' <32D:';7V C;==;4 <';8' ;4<94':9=' 23H 89;89 2=' ?98:' 3<492;24' <92D3' &'8:3' =V 8@<9;=' " $#$' <3&@=3=' 8';D>2 ?534H3' 3<4@9;24';=' 092H'LI'LN,
353=8;'H323<;5'X 92=' 5;>3'*?98:' :9=' 49B9=9 2'$#M,
35B343<3' 243' 43' 43&3;834';8' %;7 2;5'L$ .I,
37C9C<3'8:3' <989=:';8'NNN,
32;B3283'D 7C;8' &'NL".N ,
32892D>' <4' /9559;7' <989=:' 7959V 8;<6' <3 <3=328;89B3'92' ;4<94'INN$' 3243;B @<=' 8'H38'92& <7;89 2' &< 7' 8:3'-@28;'LMM'$' :9=' D <<3= 2432D3' ?98:' <3'N#L$';8' <@22;' ML,' ' 3<2;43883)' -3;2' ; 89=83' 7;<=:;5,' <92D3' &' 283' <B '92' D 77;24' 2' 8:3' ;589D' INM$' 8<9D>34' C6' ;' 7;2='I I,
3==93<3=' -3;2' ; 89=83' 7;<=:;5' @>3' &' =8<9;'53;4=';' ' & ' % # ' 928' ;92'L#'$' :9=' &9<=8' 3<;89 2=,' $' N' 3<;89 2=' 92' <8:3<2' ;92' L#' L$' NN. $$' B9D8 <6';8' 3492;'43' 9' 3D 'N". $$' <3V <3==3=' <9=92H'92' 9=D;6'I N$' =@ 3<V =3434' C6' @58'L M$' @<=@3=' 2&;99.' 8;4 'L #,
3==93<3=' H323<;5' 53;4=' <32D:' D;B;5<6'92' ;8;5 29;'I#"'I M,
38;2R =' 8:3' =8<;HH53<=' C;8853';8' 4@<92H' <3=<38<3;8'N ",
95C;' 8;>32' ;24' =;D>34' C6' 3<592' I N'$ 8;>32'C6' 5;>3'IMI'$ 8;>32'C6' 3&3CB<3'L##,
9=D;6'<9=92H'92'I 'I N,
5;>3' - ;D:97' D; 8;92.H323<;5' &' 8:3' < B92D3' &'%;59D9;' NI'$' :9=' 49&V &3<32D3=' ?98:' @3=8;' N'$' 43&3;834' ;8' 3492;'43' 9' 3D 'NM. $'$' :9=

3<;89 2=' 92' 9=D;6' IM$' IML' L##'$ 43&3;834' ;8' Q 7 R;' L# '$' ;8' / ;5.' 1 7;D34;' L '$' ;8' = 92 =;' L I.N$' 3=D; 3=' 928' 8:3' =8@<9;2' ;955=' L$ '$' =@ 3<=3434' C6' ;' 7;2;' L$.
2; ;<83' - =3 :'K ' - =3 :' ; V 53 2,
2 ; ;<83' @9=' O92H' &' 55;24' <3&@=3=' 8:3' D< ?2' &' ;92' LN,
2238' H323<;5' ;8' %;7 2;5' L$$$' DD@ 93=' ;28;243<' L$",
?3=' H323<;5' ;' ;' D 7 7;24=' C<9H;43' @243<.' 3553=536' I' ;8' 59 ;' $I '$' ;8' /9793<' $L". P,
<32293<' H323<;5';8' 59 ;' $I"'1;8' /9793<' $ Ia",
@<H ='8;>32';24'=;D>34'C6' ; 53 2' L$L,
@<<;<4' 9<' ;<<6' =3D 24' 92' D 7V 7;24' &' <989=:' 8<' =' 92' <8@H;5' $$N$' ;<<9B3=' ;8' ;D39<;' ;6' $ #'$;==@73=' D 7 7;24' ;8' /9793<' ;24' <3&@=3=' 8' ;4B;2D3'$N# $N '$X 92=' 92' 23H 89;89 2=' & <' 8:3' 2B3289 2' &' 928<;' NM' =@7 7 234' C3& <3' 8:3' @<8' &' 2J@9<6' $"L,

;C3R 2' D 7C;8' &' L ;' ;' * ;D;C355 =' D 7C;8' &' N ."",
;54;H@3=' @28' &' 53;43<' &' ;8;5;2' 53B93=' I$ ' ' <3593B3=' %3< 2;' I$M.I#, ;2292H' %3 <H3' <397' 3D<38;<6' H9B3=' ;==9=8;2D3' 8' 8:3' =8@<9;2=' NN$' 3<7 98=' 8:3' 37C;<>;89 2' &' @ 28A=' 8< =';&83<' ;6532' $#$' $:9=' = 33D:' 2' 8:3' ;29=:' 92=@<<3D89 2' $$$$' =3594=' C3<8= 2' 8' ;' 7;2;' I '$' :9=' <3 593=' 8' 8:3' 83=' &' <;2D3';24' @==9;' I M' I ", ;<;&&;' H323<;5' ;<<3=834' C6' -@2 8' $#M' $#"'$' <353;=34' C6' 2B3289 2' &' 928<;' $ I, ;<5 =' 2' C< 8:3<' &' 3<492;24' / ' =328' 8' ;6 223'8' 7338' ; V 53 2 L LM'$' D 2&9234';8/;532";6 , ;=8;:=' H323<;5' 92' D 7 7;24' &' 24;5@=9;2';<76' $ '$' =3=' @V 28';8' 24@X;<' $' <3D39B3=' D; 98@V 5;89 2' &' @ 28' " $' 7;<D:3=' 2' ;4<94' ILN'$' D 7 7;24=' 8:3')' <76' &' 8:3' 328<3 IM .LI '$' 43&3;834';8' @435;' LL .L$' :9=' <38<3;8' LL ."$' =@ 3<=3434' LL", ;=835;<' ;<J@9=' &' 43&324=' ;4<94' ;H;92=8' ; 53 2' LNI.", ;=853<3;H:' C3<8' 83?;<8' B9=D @28' :9=' 59D6' $$ ' $$I' $$L' $' :9=' D 2&9V 432D3' 92' 3553=536' $$ '$' D 7 7324=' 3553=536'8' ;5<67 53'NI'<3D39B3=

3553=536A=' <3 <8' 2' 8:3' ;29=: ;<' $M"' $"#$' :9=' D <<3= 2432D3' ?98:' <3' LM' L"I' #N' N M' N$$' $"' NLM' NNL' N" ' N"", ;=8<'% 2R;5 'D 7C;8' &' LM, ;8;5 29;' < B92D3' &'<3B 58=';H;92=8' 8:3' <32D:' #'$' H3 H<; :6' &' M$' I#I.L '$' 8:3' =8<@HH53'92' I# .II, ;B;5<6' 8;D89D=' &' 92' 8:3' 3292=@5;<' ;<' .$#'$' 8:3' ;29=:' 98=' ?3;>V 23==' "$' "I $#'$' 8:3' <32D:' #N, 3<B355 2' 243' 43' D; 8;92.H323<;5' &' /;532D9;' :9=' 92D; ;D986' IL.", 3B;55 =' 2' 34<' 7929=83<' &' <39H2' &&;9<=';DD 7 ;293=' 3<49V 2;24' /' 8' ;6 223' LM'$' :9=' 9283<V B93?' ?98:' ; 53 2' N ' N$'$' 8;>3=' &&9D3'@243<-' =3 :' L$' <3; 92834' 7929=83<' C6' 8:3' @ <373'-@28;' I ", :;C3<8' H323<;5';8' ;6532' M M"'$' 23H 89;83=83<7= &=@<<3243<' "N " . :;C<;2' H323<;5' :9=' 3,G 34989 2' 8' ;<<;H 2; I#"'$' <3D;5534'C6' @:3=73' I5$'$' D:3D>34';8' %<;2 553<=' I ", :;<53= / O92H & ;92 :9=D:;<;D83<' I$' ;<<3=8=' 3<492;24' <92D3' &'8:3' =8@<9;= & <599H:8<3;= 2 $ '$' ;<4 2=' :97. M' D 7 35534'8'49=H <;D3% 4 6' L '$' ;C49D;83=' 92' &;B @<' &' 3<492;24' L$'$"' ?98:4<;?=' :9=' ;C49D;89 2' LN$' =@7 7 234' 8' ;6 223'C6' ; 53 2' NI$';C49D;83=' 92' &;B @<' & ; 53 2' , :;<9 8'H323<;5';8' /9793<' $ L$, :;<7 9556 .D 5 235' 379==;<6' =328' C6' <3< ,8' <3',N$#.I, 928<;' 2B3289 2' &' $NM. $' 98=' 83<7=',$ $.M'$' @<8' &' 2J@9<6' 2' $" .I##, 5;<=' 2' - ;2' 53;43<' &' ;8;5;2' # 9 I' I$M, D:<;23' <4' :;<;==3=' @:3=73A=' 8< =' I$L II '$' C5 D>;43=' ;<D35 2;' I$, 5C3<8' H323<;5' ;8' 2435;' LL .L$' =5;92';8' ;D;C355 =' N", 559' ;<2' :9=)' ;8837 8' .8' <353;=3' 3<492;24' &< 7' /;532 ;6' M, 5592H? 4' <4' D 7 7;2492H' 349V 83<<;23;2' 5338' <3&@=3=' 8' ;55 ?' 37V C;<>;89 2' &' @ 28A=' 8< =' $# , 2=8;2892' D 7C;8' &' N $.I, <4 B;'=;D>' &' C6' @ 28A=' 8< =' I#, <83=' < =;5' 8' =@7 7 2' 8:3' IN$, <@22;' ;9<4' 5;24=' .;8' LML' L" ' L"M'$' ;<<9B;5' &' <3' ;8' NM' '$' C;8853' &' NMI." , 88 2';479<;5' <3=328=' 8:3' 8322=' &' 8:3' 2B3289 2' &' 928<;' $ $' $ $S

D 2D5@43= ;2 ;<<;2H37328 ?98:
9@9;B9@ "O $M,
8.A @ 9H996 H323<;5 D 7 7;24= ;49B9V
=9 2 92 ;=8;@ =A ;<76 M#$;8
;6532 M $ 4353H;83 8 8:3
<76 &8:3 328<3 I"N,
<;?&@<4 ;8592 D 5 235 D 7 7;24=
;C<9H;43 @243< 3553=536 I) ;8
/9793< $L". M$;8 <@22;NML,
<;?&@<4 C3<8 D 5 235 D 7 7;2492H
9H598 <9H;43 C5 ?= @ 8:3 C<94H3
;8 ;=8< % @R;5 NLM$ <38<3;8= 8
/9H NL$:9= 3GD355328 49=D9 5923
N,
<@R. @<H3 @D 5 235;8 ;6532 " $
:9= 43&32D3 &3<92 I"L,
@3=8;%<3H <9 43 5;D; 8;92.H323<;5
&54 ;=8953 :9= <35@D8;2D3 8 8;>3
;<7= ;H;92=8 8:3 <32D: NM$:9=
D:;<;D83<;24 D; ;D986 L $ 43&3;834
;8 ;C3R 2 L $;8 3492;43 9
3D N . $$:9= 3(8<;B;H;28D5;97=
IL ILM I <37 B34&< 7:9= D 7V
7;24 I ",

;5<67 53 9< 39?H B3<@ @ &%9CV
<;58;<<3D39B3=D 7 7;24. & <989=:
8< = 92 <8@H;5)$$N$;<<9B3=;8
/9793< NI :9=5;D> &D 2&9432D3
92 /3553=536 $NI.N$ 23H 89;83= 8:3
2B3289 2 & 9289A; $NM. $$ -99=
?;28 &D 2=943<;89 2& < <8@H@3=3
;@8: <9893= $ " $MI $M $:9= 495;
8 <9@3==$M $ =@7 7 234 C3& <3 8:3
@<8 & 2J@9<6 "L$ D32=@<34 C6
8:3 7 7;243<.92.D:93&$"",
3C3553 H323<;5 =@< <9=34 :6 ;H38
;8 ;:;H@2 IN IN[
35;C <43 H323<;5 <2;<D:3= ;H;92=8
3553=536 IN 43&3;834 ;8 59 ;
$IN.L#$;8 /9793< $LN.N$$;8
<@22;NMN." ,
3= 399;3<< = ;== & "M#,
9H3 2 H323<;5;8 @435;LL LLI,
@:3=73 H323<;5 53;4= ;2 ;<76 928
;8;529; IN$A;8 ;<D35 2; I#$$
&;95@<3 &3G 34989 2= ;H;92=8 ;8;5;2
92=@<H328= I # I $$ 7;<D:3= 2
%3< 2; I L$:9= <3 @5=3 ;24 <38<3;8
n I N.M$ C3=93H3= %3< 9 ; ;H;92 @2V
=@DD3==&@556 I$ .I#$ <38<3;8= 2
;<D35 2; II,
@ 28 H323<;5 53;4= 3D) 24 < =
& C=3<B;89 2 & 8:3 %96 243 928
;92 ILS D 7 =989 2 & :9= ;<76
#L # N :9= &9<=8 3<;89 2=
$ S D 7C;8 & 5D 53; $"$ =;D>=
<4 B; I#$ <38<3;8= 8 24@X;<
I$$ 43&3;834 ;8 ;6532 "#.$$

D; 98@5;83= " $ 97 <9= 234 C6 ;V
53 2 II,

D:;B;<<9 2 34< 43 43&3;834 C6
@ 28;8 5D 53; $M $",
=D 9J@9R -@;2 D;2 2 &) 534 :9=
92&5@32D3 2 3<492;24 / N S
< 7 8= 8:3 23H 89;89 2= ?98: ; V
53 2 "$#$;DD 7 ;293= 3<492;24
8 ;6 223 LM$:9= 9283<B93?? ?98:
; 53 2 N$,
=D@<9;5 8:3;&&;9< &8:3 $I,
= 92 =;43 5 = 283< = C;8853) &
L I.N,
8<@<9; 092H & 3B9D834 C6 ; 53 2
I $ < 79=34 <8:3<2 <8@H;5",
B <; 43&3;8 & 8:3 <8@H@3=3 ;8
$ M,

;23 H323<;5 , D 7 7;24= C<9H;43
@243< /3553=536 $I$$;8 59 ;)$I
IM ;8 /9793< $L".N,
3<492;24 /<92D3 &8:3 =8@<9;= ;DV
D@=34 &8<3;= 2 $$ $:9= D:;<;D83<
N. "$:9= 928<9H@3 ?98: ; 53 2
$#$:9= ;<<3=8 ;24 ;DJ@988;5 $ I
;D9893= 8:3 7 C ;8 <;2X@3R L $
C3D 73= 092H 2 :9= &;8:3<= ;C49D;V
89 2 ,L$$ 3283<= ;4<94 LI$:9= 89853
2 8 <3D H29R34 C6 8:3 <32D: LI LN$
8<93=8 < 989;83 ; 53 2 L $ 7338=
; 53 2;8 ;6 223 L . $ 9=& <D34
8 ;C49D;83 L$ D 2&9234 ;8 /;532D;B
,
3<H@= 2 H323<;5 ,D 7 7;24= C<9V
H;43@243< /3553=536 $I$$;8 59 ;
$I $I"$;8 /9793< $L".N#$ H9B3=
3<9432D3 C3& <3 8:3 @<8 & 2J@9<6
$"L $",
95;2H:93<9 D; 8;92.H323<;5 &%;59D9;
7@<43<34 C6 5493<6 NN N,
5 <94; 5;2D; @28 5989D;5 92V
&5@32D3 & IL $ <3=94328 &8:3 -@28;
%323<;5 I ",
28;923C53;@ 8<3;86 & M. ,
6 H323<;5 :9= 929 2 & 2H59=:
92&;28<6 $ & 2H59=: D;B;5<6
"$;8 /9793< $ $;8 <@22;
N",
<;2D3=D:9 H323<;5 =D;883<= ;7;
2;A=8< =;8D 7C;8 & ;2=955;N $$
92 8:3 ;== & @D3C;4 @ NI$ @<V
=@3= <3A= ;<76;8 38;2R = "$
;8 <@22;M",
<;2D9=D 2 6 @2H3< C< 8:3< &
3<492;24 / ;<<3=834 C6 @<;8 N#,
<39<3 3<2;<492 H3@3<;5; 92834
:3;4 & <8@H@3=3 ;<793= $ $$ J@;<V
<35= ?98: 3553=536 $I I$ <3=328= 8:3

83<7=' &'8:3' 2B3289 2' &' 928<;' $ #'$ '$ M,
<3<3'- :2' >:;7 <989=:'7929=83<' 92' ;92'C<92H='=@C=9493='8' <@22;' IN,' L""'$ @<H3=' <3'8' ;4B;2D3' N#N'N ""'N$#'$:9=' D 28< B3<=6'?98:' <3' N$I' $L,
<3<3'H323<;5'7338=' 2D36'?98:'<3.' 92& <D373@8=' IM,

%;59D9;' < B92D3' &'<3B 58=' ;H;92=8' 8:3' <32D:'NN'$ 98=' 97 <8;2D3'N"'$ H3 H<; :6' &'M# M $ 79598;<6' 3<;V 89 2=' 92' NI. N,
%;55@RR' D; 8;92.H323<;5' &' =8<37;.' 4@<;' ;88;D>=' <32D:' H;<<9=2' ;8' 5B;='$ N$ <3&@=3='8'4<;?' &&' :9=' 8< ='$ "$ <3D;5534'8' <;2X@3R' L$#$ D 77;24=' 8:3' ;<76' &' ;2' -@;2'LM ,
%;7 2;5'D 7C;8' &'L$$'L$I,
%3 <H3' 092H':9=' <3 56'8' 8:3' < <;89 2' &' 24 2' ;C @8' 8:3' 2B3289 2' &' 928<;'$"I,
%3< 2;' & <8<3==' &' :354' C6' 8:3' ;29=:' #$' C3=93H34' C6' @:3=73' I N'I '$ =3D 24'=93H3' &'I$N.I ,
%9< 243' 9<=8' < =' &' C=3<B;89 2' &' 8:3'N' '36 '-@2 8P'$ 3D 24' < =' &' C=3<B;89 2' &'8:3' $3 ' @ 28P,
% C3<8'H323<;5' <392& <D3=' @ 28' '"$ 43&3;834';24'7 <8;556'? @2434' ;8' 32H9C;<' M' M$,
%4 6' ;2@35' <92D3' &'8:3' 3;D3' <9 73' 7929=83<' &' :;<53=' /' &' ;92' :9=' < D5;7;89 2' &' D8,'N' M##N'L$' :9=' ;<8'92'8:3' <3;86' &' 28;923C53;@' "' #$' :9=' D:;<;D83<' ;24' 59D6' $.N$' :9=' 327986' 8' <92D3' 3<492;24'$#' $ $' 8<93=' 8' < 989;83' ; 53 2' IN$' < =3=' 8:3' &59H:8' &'8:3' ;29=:' @<8'L#' L $'49=H<;D34';24'C;29=:34'L $'=@7V 7 234'8' ;6 223'C6' ; 53 2'NI'$:9=' <3= 2=9C95986'& <'8:3'=8;83' &'8:3' ;29=:';<76'"N.M,
% @5;='H323<;5' <3 @5=34' ;8' =8;5.' <9D:'I$N,
%<;:;7'D 5 235' ,'C<92H='23?=' &'8:3' &;55' &' ;4<94'8' <3'N$",
%<97;<3=8'H323<;5';8' @435; LL$LLI,
%@;4;<<;7;'8:3' ; 53 2=' ;==;H3' &' LI,

3<349;' 2' - =3 :'D 77;24=' 8:3' <76' &' =8<37;4@<;'L $LNN'L ' N,
955'H323<;5' ,'D 77;24=' C<9H;43' @243<' 3553=536' I' ;8' 59 ;

$I IM' ;8' /9793<' $L"'$ I$' ;8' <@22;'N" ,
3' 9<- :2'H323<;5' :9=' ;4B;2D3' 2' 5B;='$M#'LM $' :9=' D9<D@98 @=' 7;<D:'8'X 92' <3'N #'N $' ;8' <@22;'NML'$ 8;>3=' D 77;24' &'8:3' ;<76' 2' <3=' 43;8:'N" ,

C;7;B;<< '-@=8 'C<92H=' 8:3' 23?=' &' 8:3'8<3;D:3<6';8' ;6 223'8' ;4<94' N",
2&;28;4' @>3' &'D 2&94;28' &' 3<V 492;24' / ' 92' 8:3' ;&&;9<' &' 8:3' =D@<9;5' "'$$ I' 92' 9=D;6'I N$' 43&324=' ;4<94' ;H;92=8' ; 53 2' LNI,
2J@9=989 2'8:3'% 4 6=' ;8898@43'8 .' 8 ?;<4=' '$;C 59=:34'C6' ; 53 2' L L.N,
RJ@93<4' @H329' ;H328' &'% 4 6' 4<;?=' @'8:3' <3;86' &' 28;923C53X9@' M$' =324=' 49=J@93892H' <3 <8=' &< 7' ;<9=' IN,

-:2'<92D/ 3H328' &' <8@H;5'D 7V 35534'8' =@C7 98'8'8:3' 2892328;5' 6=833' '$;88;D>34'C6' ; 53 2' $"'$:9=' &59H:8'&< 7' 9=C 2'I#,
-23=' 359G'H323<;5' D 77;24=' ;' 49B9=9 2'92' ;=8;@ =' ;<76' .
-=3 :' ; 53 2' 2; ;<83';DD3 8=' 8:3'D< ?2' &' ;92'LN$' 3283<=' ;V 4<94' I'$:9=' D:;<;D83<' L'$' &59H:8'&< 7' ;4<94' N'$;8' 9<;24;' IL#'$:9=' <38@<2'8' ;4<94'L ",
-@<4;2'-3;2' ; 89=83';7;<=:;5'D 7V 7;24=' 8:3' 8< =' &' 092H' - =3 :' IMI'IML,
-B355;2 =' ;= ;< 43' <3&@=3=' 8:3' 929=8<6' &'8:3' 283<9' <'@243<'-' =3 :' L'$;'737C3<' &'8:3'-@28;'%323<;5' I L'$:9J' 9C3<;5'B93?='IN 'IN$,
-@2 8'H323<;5' @>3' &' C<;283=' 53;4=' <32D:';<76'928' ;92'M'$:9=' 92B;=9 2' &' <8@H;5'N' :9=' 7;<D:' 2' 9=C 2'$ .I#'$:9=' <@53'92' <V 8@H;5'$#N$' :9=' 49&&9D@5893=' 92' 9=C 2' $ I'$ L'$ 43&3;834' ;8' /9793<' $L .' N $' 23H 89;83=' 8:3' 2B3289 2' &' 928<;'$NN. $$' 3B;D@;83=' <8@H;5' $M#$' <389<3=' 8' ;92'LN#'LM ,
-@8;' <' @2D95' &' 3H32D6';' 92834' C6' 3<492;24' / 'LM$' 98=' 43;592H=' ?98:' @<;8' M'N"$ =324=' 38989 2' 8' ; 53 2';=>92H'& <-=3 :' 2;V ;<83';=' 092H'NI,
-@28;'%323<' D<3;89 2' &'8:3'I $'$ 98=' D 7 =989 2'I L'$ 92'=3==9 2'I L.' NN'$ &593=' 8' 3B9553,

-@28;=' 8:3' < B92D9;5' '%;59D9;
';' 24;5@=9;' ;8;5 29;' fD,

03;83=' 9<;' 9D:;<4' ;479<;5' D 7V
7;2492H)' 8:3' &5338'92' 8:3' ;589D' \IAC'
3&&3D8=' 8:3' 3=D;' 3' &' ;' 7;2;';24'
599=' 8< ='I L,
03553<7;22' <;2D 9=' U:<9=8 :3'
H323<;5)'<389<3=' 2' 9=C 2'$ N'$:9=
=@DD3==' ;8' 5D;D3<'4' ;5'LS' ;8'
/979 3<' $LN. N' 23H 89;83=' 8:3'
2B3289 2' &' 928<;'$NN. $,
092435;2'H323<;5'8<3;D:3<6' &'I $'
I L,

;: @==;63'H323<;5'D 7 7;24=' 4<;V
H 2=';8' ;D;C355 ='NN"S' ;8' 2V
=8;2892 'N $'N IS' ;8' <@22;' M",
;>3'D 5 235';>95534';8' 59;'$IM,
;223='-3;2'7;<=:;5' @>3' &' 283V
C355 '?92='C;8853' &' @435;'LIN LL,
;9==3 H323<;5';8' = 92 =;'L L L NS'
=328';H;92=8' ;5;7;2D;'NN,
;=;553'H323<;5';8' ;C3R 2' L S' ;8'
3492;'43' 9' 3D ' N . S' ;8'%;'
7 @;5'L$$,' ;1
;R;2' ;<J@9=' &'43&3;834';8' @435;'
LL' L S' ;8' ;5532' LN'<=328'8'
;8;5 29;'8' =3' @:3=73'IM,
* 3DD:9'H323<;5'=39R3=' & <8<3==' &' ;<V
D35 2;'I S' C3=93H34'92' ;<D35 2;'C6'
;5;D9 'I$' 'I$M'S 1?98:' @:3=73' ;8'
;<D35 2;'I M,
3&3CB<3' <;2D9=' - =3 :' 7;<=:;5'
@>3' &' ;28R9H'43&3;8= 5;>3' ;8'
Q <2 R;'L# S' ;8'/;57;D34;'L ,
3&3C)B<3'H323<;5'<392& <D3=' 3==93.'
<3='II S' ? @2434' ;8' <@22;'N"L,
3&3CB<3. 3=2 @3883='H323<;5'=328'
;H;92=8' ;<;H ==;' $ L$S' B9D8 <9 @=
;8' ;5532' LL LNS' :9=93H3' &' ;<;V
H ==;' LN. $S'=@ 3<=3434'C6'/3<493<'
$S' ;8'C;8853' &' @435;'LLLS' 8;>32'
<9= 23<;8' 32;B3283' #,
3983'H323<;5'43&3;834' C6' 9= 2' ;8'
B <;'$ M'S :9=49&&9D@5893=' ?98:'%;5.'
5@RR '$ ";')
398:'H323<;5'-,8;>3=' ;<892' 5;>3#=
<38<3;8'L$N."'$ D 7 7;24=';'C<9H;43'
@243<' <3'N# '$M'NII,
398:' ;6'7;X <':9=B93?=' 2' ;2V
9=:' ;8<9 89=7'N#N'N ,
3 54' <92D3' &' 9D956'928<9H@3=
& <8:3' 32D6' &' ;92'I #,
9H3<. 35;9<'H323<;5'43&3;834';8' 32.'
H9C;<' M,
9=C 2'=39R34' C6' -@2 8'I#'I'S 98=
97 <8;2D3'$#"'S D 24989 2' &'@243<
-@2 8'$ I'$ LS' =@<<3243<34'8'8:3

<989=:'C6'8:3' 2B3289 2' &' 928<;'
$ I,
5;7;=' /;53@D9;2' H323<;5';8' 8:3'
D 97D95' &' ?;<' 92' ;4<94'I S' ;8'
<;@X@3R'IMN,
9= 2'H323<;592' <8:3<2' <8@H;5'
$ IS' <389<3=' 2' C<;283='$ N'S :9=
B9D8 <6' ;8' B <;'$ MS' <3D; 34'8'
9=C 2'$ M'S';8'/9793<'$LN.N$,'
3R'D 5 235' ;29=:';88;D:4' ?98:'
<3'LMM'L"L,
@9=' :959 3' @>3' &' <53;2=':9=
928<9H@3=';57@8:3' ;29=:' 3H32D6'
I #,
@H 'D 7C;8' &' L'N ,')

;4<94'43=D<9 89 2' &' N'S 98=5;D>' &'
97 <8;2D3' 5989D;556' 'S 98=';4B;2V
8;H3=;=';'D328<3' &'< ;4='MNS' - =3 :'
2; ;<83' 3283<=' IS' ;C;24 234'
C6' - =3 :' NS' 98=' <3=9=8;2D3'8'
; 53 2'LN$."S' ; 53 2';8'L I.'
M,
;9= 2'H323<;5';8' = 92 =;'L ,'
;5;= 9@;'H323<;5'43&3;834'C6' 3C;='
189;29'L N,
;2=955;'D 7C;8' &'N $,
:<;2=92'H323<;5'3B;D@;83=' 5H;<B3'
$ $S'=8 79=' 3X;'$,
;<H;< 2'H323<;5';8'/9793<'$LN.' *
N$,
;<9;' @9=;'J@332' &' :;<53=' /' &'
;92' :3<D:;<;D83<' LS' 928<9H@3=
?98:' @<;8' ;H;92=8' 3<492;24'/'
LL'L S' ;8' ;6 223'NI,
;8;<' '=8 <734' ;24' =;D>34' C6' @V
:3=73'I ,
;8:93@' ;@<9D3'H323<;5';8' @435;'
LL .I,
3492;'43' 9' 3D 'C;8853' &' NM. $,'
32H9C;<'D 7C;8' &' M,
3<53'H323<;5'=328' ;H;92=8' ;28;2V
43<' $ ' L$S' ;8' ;&D 2' L S' ;8'
3492;'43' 9' 3D ' N". S' ;8'
%;7 2;5'L$$S' ;8' ;D;C355 =' N"S'
;8' 2=8;2892 'N IS' ;8' <@22;' '
NMN."#,
95;2=' <;2D9=D '53;43<' &' ;8;5;2'
$' <3 @5=3=' :;C<;2'I "S'
=3=' @:3=73'I$ 'I$M,
@:;@4'H323<;5';8'%;7 2;5'L$$,'
9 $8:3' &' ;8;5 29;'I#$ I#N,'
9<;' <;2D9=' ;?4 2' <4' 2'8:3'
2J@9<6'928'8:3' 2B3289 2' &' 92V
8<;'$"L.M,
2D36' 2' 4<932'-3;22 8'43'7;<V
=:;5' @>3' &' 23H59;2 '53;4=' < ='
&' C=3<B;89 2' &'8:3' D3;2' ;=8'
928' ;92'ILS' D 7 =989 2' &':9=

;<76' $N5' :9=' 3G 34989 2' ;H;92=8' /;532D9;' II5' :9=' <3 @5=3' ;8'/;532V D9;' IN5' <38<3;8=' 2' ;4<94' IM5 ;8' @435;' LL ,

2839<' <' 8:3'0 243'43' ;=8<' ;<97P' <3=328=' 8:3' 83<7=' &,'8:3' 2B3289 2' &' 928<;'$ "'$MI,

289X' 243'43':9=' 3<;89 2=' 2' 8:3' C<' IM 5 &9354.43 @86' &'8:3' -@28;'I" ,

<3' 9<-:2'H323<;5'<38@<2='&< 7' 8:3' ;589D'$$L $$N'5 5;24='92' <8@V H;5' $ #' LMN5' ;4B;2D3='928' 54' ;=8953'LN 'LM'5' :9='}49&&9D@5893='&' 8<;2= <8'"LMN." 5');8' ;5;7;2D;' LMN.N $<3= 5B3=' 8' <38<3;8' N#"' N #5' :9=' D:;2H3' &' 5;2='N$$'N$I5' :9=' J@;<<35'?98:' <3<3' $I M$L'5' ;4. 9/;2D3='8' ;:;H@2'NI'5' :9=' <38<3;8' C3& <3' ;53 2' NIM.N"5' 9=' X 9234' :6' ;' 7;2;' ;8' =8 <H;' N $5' <3V 8<3;8=' C3& <3' @58' N.MM5' ?92=' C;8853' &' <@22;' MM' NM"5' :9=' 43;8:';24'C@<9;5' " 5' :9=' D:;<;D83<' ;24';D:93B37328=' " .N#$,

<5;' 2' 7;=43 H323<;5'<3 @49V ;83=8:3' 98@5;89 2' &' ;6532'$# 5 43&324=' ;4<94' ;H;92=8' ; 53 2' LNI'5' 23H 89;83=8:3'=@<<3243<' &'8:3' D986'LN"5' 8;>3=' &&9D3'@243<-=3:' L $5' :9=' 53883<'8' <3' 'N M, <893<' 4 @;<4' 4 5:3' ;=979<-=3:' @>3' &' <3B9=' ';<<9B3=' 92' ;92'LM ,

@8 2'H323<;5' ;8' 3492;' 43' 9' 3D' N". 5' ;8'%;7 2;5'L$$,

@2=83<'%3 <H3' ;<5' &':9=' 929 2' &'8:3' ;29=:';<76'"M,

@<;8'-;D:97'%<;24. @>3' &' 3<H' D 77;24=' <32D:' & <D3=' 92' ;92' IM5' :9=' D:;<;D83<' ;24' D; ;D986'I"'5 3283<=' ;4<94'LI5' <3&@=3=8' ';D>2 ?V 534H3' 3<492;24'/ ';=>92H'LI'5 92V 8<9H@3=' ?98:' :;<53=' /';24' ;<9;' @9=;';H;92=8' 3<492;24'Lb5' 924@D3=' 8:3' 54'>92H'8'?98:4<;?:9=';C49D;V 89 2'L 5' :9=' 43;592H=' ?98:'8:3'-@28;' ;8' ;4<94'NM'N"5' J@355=' 92=@<<3DV 89 2'92' ;4<94'N# N 5' 53;B3=' ;92' $I'5' :9=' 928<9H@3=' ?98:' @D:3' ;24' ;5536<;24'NN#,'

;93<' 9<' 9559;7'H323<;5':9=8 <9;2' &'8:3' 3292=@5;<' ;<':9=' =8<9D8@<3=' 2'8:3' ;29;<4='M"'L""5' 3<< <=' 92' :9=' 3=897;83=' &'2@7C3<=' $N 'L$ ' NI"5' :9=' 83=897 26'8'8:3' ;8;5;2=' I#$'5 79=92& <734' ?98:'<3H;<4'8' ;' 7;2;A=' ;<76'L N5' :9=' 43&32D3' &

<3A=' =8<;83H6'L" 'N" 'N##$:9=' 3@5 H6' 2' <3'N#$,,)' ;93<' ;X<:;<53=' ?@2434';24' 8;>32' <9= 23<;8' <@22;'NMM, ;53 2':9=' <X3D8=';H;92=8' ;92' $. 5' 928<9H@3=' ?98:)' 3<492;24)' <92D3' &'8:3' =8@<9;=' $#.I5' :9=' 8<3;D:3<6' ;8' ;6223'N 5' &&3<=' -=3:' 2;<83'8:3' >92H4 7)' &' ;92'LN'5' :9=' <9H92;5 5;2' &'D;7V ;9H2' 92' ;92' $I.N'5' :9=' ?<;8:';8 '8:3' ;98@5;89 2' &' ;6532'IIL II 5' :9=' 23?'=D:373' &' 3<;89 2=' 92' ;92'II .L#' :9=' 8<3;86' ?98:'8:3 R;<53G;243<'I 5'.:9=' 53883<' 8' 092H' %3 <H3' 'I M5' ;<<9B3=' 92' ;92'I" 'L '5 43&3;8=' 35B343<3' 28 %;7 2H5'L$$5' ;4B;2D3=' :' ;V 4<94'LL"'S,'D<==3=' 8:3' 7 =93<<;' LNI.N '5' 3283<=' ;4<94'LNN."'5' :9=' =D:373' &' <3& <7=& <' ;92'L' L N5' :9=' @<=@98' &' <3' IM.L 5' :;58=' ;8' 32;B3283'N "5' <38@<2=' 8' <;2D3'NN ,

36' 9D:35'7;<=:;5' @>3' &' 5.' D:92H32';<<9B3=' 92' ;92'IL 5' &;95=' 8'D;8D:'8:3' <38<3;892H' ;<76' &' ;=.' 1.8;2 ='LLN'LLM,$X 92=' 92'8:3' @<=@98' &' <3'NL 'NL' N 'NN$,

9H:892H;53'H323<;5' ,'D 77;24=' C<9H;43' @243<' 3553=536' I5' ;8' 59 ;'$I 5 ;8'/9793<' $L".N",

A ;<<355'H323<;5' ;29=:' 929=83<' &' ;<8;>3=' &&9D3' @243<-=3:' L,

A 39553'H323<;5':9=' C5@243<=';8' @V 435;'LI .LL,

<8' 9=:' 9' &' 7' 28 29' 43' ;=8<' ':3;4' &'8:3' <8@H@3=3'-@28;' $ 5' :9=' 9283<B93?' ?98:' 3553=536' $$M5' <3=328=' 8:3' 2B3289 2' &' 92V 8<;'$ $ M5' :9=' 53883<' &'D 7 5;928' $" ,

A @559B;2' ;2@35'D; 8;92'<3 @5=3=' % @5;=' &< 7' =8;5<9D:'I$,

;H38' 4?;<4'H323<;5'D 77;24=' 3=3<B3' 9B9=9 2' &' <3A=' ;<76' NII' NL5' :9=' =@DD3==' ;X5 ;D;C355 =' NM5';8' 2=8;2892 N I5';8' <@22;' NM",

;H38' 32<6' <4' =@< <9=3=' 8:3' <32D:' ;8' ;:;H@2' IN5' ;8' 3@;.' B3283' #' ,)

;5;D9' ;<J@9=' 435'53;4=' 8< =' &< 7' ;53;<9D' =53=' 8' ;8;5 29;' I$I5' ;8;92.%323<;5' &' ;8;5 29;' I$' 'X 92B3=8=' ;<D35 2;' I$,

;5;& G' <;2D9=D ' 3 @86' &'8:3' @V <3 7 3. -@28; 'M $' @=@< =' D 7 7 ; 24' &'8:3' ;<76' &' ;=8;99 ='LII,
;5;& G' - =3 :' 53;4=' 8:3' <3B 58' ;H;92=8'8:3' <32D:'92' ;<;H ==;' N $' ; 8;92.%323<;5' &' <;H 2' N"' $' :9=' D59;<;D83<' LI$' :9=' 43&32D3' &' ;<;V H ==;' LI I.N$' $ 43&3;834' ;8' 5;.' H 2 L $' ;8 95;' N $' :9=' &;28;=89D' 5;2=' I" 'LIL N,
;29 35@2;'D98;435' &'=39R34'C6' A <.' 92;H2;D' IN,
32;' ;2@35' ;'H323<;5'D 7 7;24=' 49B9=9 2' 92' ;=8;99 =' ;<76' $' ;<<9B3=' ;8' ;6532' "$$' 8:<3;832=' @ 28' "N$' :9=' D ?;<49D3' ;8' @.' 435;'LL$.N' $ 3=D; 3=' &< 7' 36'L #,' 9H2;83559'H323<;5'D 7 7;24=' <76' &' ;=8953'IM'$' <38<3;8=' C3& <3' 36' I"I$' <37 B34' &< 7)' :9=' D 7 7;24' IM ,
59=:' 9H:8' <=3'D:;<H3' &'8:3';8' 8:3' 7 =93<<;'L ",
<85;24' ;C9238'8:3'<3= 5B3=' 8';94' 1<9=92H=' 92' ;92';24' <8@H;5'$$'
<8@H;5' >92H4 7' &'D 7 35534' 8' =@C 798'8;8C3' 2892328;5' 6=8329' $' D 2J@3=8' &'C6' <32D:'8< ='$N.I$' 98=' ;<76' 49== 5B34' I $' 92=@<<3D89 2' &'$#N. M$' 3B;D@;834'C6'8:3' <32D:' $ "' $M#,
<;48' H<,' 43' <D:C9=: ' &' ;.' 5923=' :9=' 737 9<=' N' N' 'LN"' L I,

3492H' 3 4 < 'H323<;5'D 7 7;24=' 49B9=9 2' @243<' ;=8;@ =' $' ;8' 32H9C;<' M ' M$' 7;<D:3=' 2' ;6532' M ." $' 7;<D:3=' & <' ;8;5 29;' IM .M,
39553' H323<;5'=@DD @<=' @:3=73' I "' $' <3 @5=34'&< 7' =;=' I$,
;4='8:3' &' ;92' M.MN,
C3<8= 2' 3B,' -;73='379==;<6'&< 7' ;2292H'8 ' ;' 7;2;'I $' =@DD3=' &'599=' 79==9 2' I $,
D;' H323<;5'D 7 7;24=' /;532D9;2' 49B9=9 2) 8' @435;'LL ,
59D;'D 7C;8' &'$IN.L#,
7;2;' ;' ;<J@9=' &' =328' 8'8:3' ;589D' ?98:' ;29=:' 8< ='"#' IN' $ 3=D; 3=' ?98:' :9=' ;<76' 2' <989=:' B3==35='I .L$' =@ 3<=343=' 5;>3' 92' D 7 7;24' &'8:3';<76' &%;59D9;'L$ $ < =3=';'X@2D89 2' ?98:' <3'N ' $M' NII' NIL$' X 92=' <3';8' =.

8 <H;'N I' $ <38<3;8=' 8:< @H:'8:3' ;==' &' 2D3C;4 2' NI,
=;='<3=9=8=' 5539553A=' ;88;D>'M$,

;C;8:93<'H323<;5';8' 3492;'43' 9 ' 3D ' N". ,
;:;H@2'D 7C;8' &'NIN,
8,' 6<' ;@<328' % @B9 2' H323<;5' =@ 3<=343=' @:3=73' 9@' ;8;5 29;' I I$,
;928' ;<D:'H323<;5';8' @435;'LL ,
;2' -@;<9' H323<;5' 43&3;834' ;8' 8:3' 7 =93<<;'L .N#$' 7@<43<34' C6' :9=' 9B2'8< ='L ,,
;2' 7;2' @28' &'D 7 7;24=' 49V B9=9 2' &< 7' 8:3' ;589D' ;8' = 92 =;' L I.N,' 1
;28;' <@R$' ;<J@9=' &j'53;4=' 8:3' <3B 58' 92' 8593' =8@<9;=$' N ,
;<;H ==;'&9<=8'=93H3' &' L .N$')$ =8 <6' &'8593' ;94' &' NL,
;B;<6' 223' -3;2' ;<93' 323 .' H323<;5' @>3' &' B9H ';8' ;4<94 LM$' 924@D3=' 3<492;24' 8' 7338' ; 53 2' LM$' 8;>3=' D 7 7;24' ;8' ;4<94' 2' @<;8A=' 43 ;<8@<3' $I' NN '$' ;8'8:3' ;==;H3' &'8:3' 7 V =93<<;'L N,
D:?;<8R' H323<;5' =328' ;H;92=8' 3.' <94;'I#"$' <38<3;8=' 8' ;<D35 2;'I ' 3C;=89;2^'H323<;5';8' Q <@ R;'L# '$' 43&3;8=' 7;= 92;'L N,
3H@<' :959 3'43' :9=' 43=D<9 89 2' &' 8:3' ;==;H3' &'8593' 7 =93<<;'L ",' :3<94;2' 9D:;<4' <92=536':9=' =X933D:' 2'8:3' ;29=:'92=@<<3D89 2'$$$,'
929;B92';479<;5'D 7 7;2492H' @==9;2' &5338' 92' 8:3' ;H@=' <3&@=3=' 8' ;94' -@2 8' $#"$' D 2D5@43=' 83<7=' ?98:' 479<;5' 88 2'$ $'$ML'$M ,
798:' 9<' 64236';479<;5'C5 D>;43=' 9=C 2'$",
5;2 'D; 8;92.H323<;5' 7@<43<34' 92' ;49R'N ,
59H2;D'H323<;5';8' /9793< '$ I.",' 1 # $ 9<<3H@5;< 53B93=' &' 8;.' 5 29;' #' I#N' I
7 =93<<;'D 7C;8' &'8593'L N.N#,' @58' 9D 5;=' -3;2'43' 93@' 7;<=:;5' @>3' &' ;57;89;';<<9B3=' 92' ;92' L M$' B9D8 <9 @=' ;8' %;7 2;5' L$$' L$I' $ DD@ 93=' ;28;243<'L$"$' =@DV D3==&@5';8' ;2=955;'N $$' :9=' @<=@98' &' <3'N .MI$' <3&@=3=' C;8853' ;8' @H ' N L$' &9H:8=' ;8' <@22;' MI.' " $' 5;D3=' 92=D<9 89 2=' B3<' C5 <3A=' H<;B3'N" ,
32D3<'H323<;5' , C<92H=' 49B9=9 2&< 29' 9D956';24'%9C<;58;<'8 'X 92' 3553= 36

$ I #$:9=' 3B9432D3' ;8' 8:3' 2J@9<6'928 ' 8:3' 2B3289 2' &' 9@8<; '$"L '$" ,' 8<;2H& <4 ' <4 ' <989=:' ;7C;==;4 <' ;8' 9=C 2 '$" ' I#, 8@;<8 ' :;<53=' <989=:')7929=83<' ;8' ;4<94 ' :9=' <37 ;<>=' 2'8:3'92;D89B986' &' 8:3' @ <373' -@28;)INN ' N#L$' @<H3=' <3'8 ' ;4B;2D3 'N '"$' D 73=' ;='379==;<6'&< 7' <3<3'8 ' <3 I ,' @<833=' =3<H3;28 ' :9=' <37;<>=' 2' ;29=:' &&9D3<=' "",

673=' D 5 235 ' ,' :9=' <3 <8' 2' ;' 7;2;A=' & <D3 ' IL,

;D89D=' 8:3) &' 8:3' <32D:' L."' $ &' 8:3' <989=:' L.$$, ;5536<;24' :;<53=' ;@<9D3'43' ;5536V <;24' 3<9H <4 ' <92D3' &' 323B328 ' =3=,8:3'92B;=9 2' &' ;92 ' $' <3D39B3=' 3<492;24' / ' 2' ;<5 =' ;24' 2' 28 29 ' ;8' / ;532 ;6 'N ' NN, ;65 <' 593@8,.D 5 235 ' D 7 7 ;24=' 8:3' $#8:' 3H8,' ;8' / 9 7 93< ' $ N, 993C;@58 ' ;@5 ' H323<;5 ' D:93&' &' 8:3'=8;&&8 ' -@2 8 ' ;8' 8:3' D @2D95) &' ?;< ;8' <<3=' /34<;=' $NN' $:9=' 92V 83<B93?' ?98:' ; 53 2 ' $N"' $:9=' 3B9V 432D3' ;C @8' 8:3' <32D:' 3D@5;89 2=' ;8' 9=C 2 '$M , TA: 793<3=' H323<;5' ;8' /97939. ' $ L ' $, <30 ' :9=8 <9;2' &' 8593',. 3292=@5;<' ;<' H 3=' 8 ' 24 2' ;=' ;2'379==;<6' &< 7' 93' =8@<9;=' ?A, , <;28 TD 5 235 ' D 7 7 ;24=' 49B9=9 2' &' <8@H@3=3'@243<' 3553=536 '$ I L$' ;8' 3593&' $I ' $;8' / 9 7 93< ' $L", ' : @435;' D 7C;8' &' LL' L ' $ C;8853' &' LI".LL,' ' ;)

(#;543R' 4 2' 28 29 ' 97 <9= 234' C6' @3=8;' I ", /;532D9;' 7;==;D<3' &' 8:3'* <32D:' D 5 26' 92 ' NM' $' 2D36A=' 3G9 34989 2' ;H;92=8' II.N, /;57;D34;' D 7C;8' &' L ,

/;@H:;2' :;<53=' =3D<38;<6' 8 ' 8:3' <989=:' 7929=83<'92' ;4<94 :9=' ; 3<=' $L LI L' $:9=' 929 2' &' 8593' 32V 8<;5'-@28;' IN ' $ C<92H=' 8:3' 23?=' &' @435;' 8 ' <3 ' N#M, /3435' H323<;5' <392& <D3=' @ 28' N' $ 7;<D:3=' :' ;' ;< 592;' MI$' ;<<9B3=' 5;83' ;8' ;6532' "I$' <38<3;8=' 2' ;' ;< 592;' "M$' <38@<2=' 8 ' ;6V 532' "", /3<493<' H323<;5' ;8' 8:3' =93H3', &' ;<;V H ==;' $$' <38<3;8=' 8 ' @435;' N , /9D8 <' 5;@43' 3<<92' 7;<=:;5' @>3 &' 355@2 ' :9=' 3<;89 2=' ;H;92=8' 5;>3' L#",L I$' ;8' = 92 R;' L L.N, /955;883' H323<;5' ;8' Q 7 R;' L# ' $:9=' 3=D; 3' &< 7' D3B34 ' L # $;8' = 92 =;' L L,' ,, /955, @8<36=' D; 8;92' ;=>=' @= 32=9 2' &' : =8959893=' &< 7' 3492H' "$' $ 97V <9= 234' C6' ; 53 2' IIN, /9793<' C;8853' &' $L .N , /9B3=' H323<;5' @3H53J8=)' 8 ' :35 ' ;8;.' J29;' I$I,' *

3553=536' H323<;5' 9<' <8:@<' 49=V 37C;<>=' ;8' 9H@39<;' $ M' $:9=' 9283<V B93?' ?98:' 8:3' 9=: ' &' <8 ' ;24' 8:3' @ <37J' -@28;' $$M' $;8' 59D;' $,IN.L#' $;8' /9793<' $L .N ' $:9=' 49&&3<32D3=' ?98:' @<<;<4' ;24' ;5.' <67 53' $N#. ' $:9=' B93?=' 2' 8:3' &@8@<3' &' 8:3' ?;<' $MM' $ <38@<2=' 8 ' 2H5;24' $"#' $ =@77 234' C3& <3'8:3' @<8' &' -2J@9<6' 2' 8:3' 2B3289 2' &' 928<;' $"L$' :9=' 3B9432D3' ;H;92=8' @<<;<4;24 ;5<67 53' $" $' <38@<2=' 8 ' 9=C 2' I##$' :9=' 8;D89D=' L.$$, 95= 2' 9<' C3<8' <H;29R3=)' 8:3' @=98;29;2' 3H9 2' $M#,

Q;H;5 ' 3<2;<4' 8:3)' =8@4328' 53;43<' J&' <3B 58'92' 97C<;' $ D; 8@<3=' 9H@V 39<;' $,' Q;7 <;' <3=9=8=' 9==3A=' ;88;D>' N$, Q 7 R;' C;8853' &' L# ,

. ' "

' ' B 99,' <*[

,I& 3

<23'

G& <4K <92834' ;8' 8:3' 5;<324 2' <3==' C6' 4 &/' ' ,

Spain and Portugal, showing physical features and roads.

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